

1 UNITED STATES DISTRICT COURT  
2 DISTRICT OF NEVADA  
3 BEFORE THE HONORABLE LARRY R. HICKS, SENIOR DISTRICT JUDGE  
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4 ORACLE USA, INC., et al, :  
5 :  
6 Plaintiffs, :  
7 : No. 2:10-cv-0106-LRH-VCF  
8 -vs- :  
9 : September 24, 2021  
10 RIMINI STREET, INC., et al, :  
11 : Reno, Nevada  
12 Defendants. :  
13 : Volume 5  
14 :  
15 \_\_\_\_\_

11 TRANSCRIPT OF EVIDENTIARY HEARING

13 APPEARANCES:

14 FOR THE PLAINTIFF: Richard J. Pocker  
15 Benjamin P. Smith  
16 William A. Isaacson  
17 Jessica Phillips  
18 Sharon R. Smith  
19 Corey Houmand  
20 Zachary Hill  
21 Attorneys at Law

19 FOR THE DEFENDANTS: W. West Allen  
20 Eric Vandavelde  
21 Samuel G. Liversidge  
22 Ilissa Samplin  
23 Casey J. McCracken  
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23 Reported by: Margaret E. Griener, CCR #3, FCRR  
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1 RENO, NEVADA, FRIDAY, SEPTEMBER 24, 2021, 9:05 A.M.

2 -o0o-

3  
4 THE COURT: Good morning. Have a seat, please.

5 The record will show that we're reconvened on  
6 Friday morning, our fifth day.

7 Let me inquire of counsel. I'm interested in  
8 counsel's assessment of how much longer counsel anticipate  
9 going. I notice that everyone is within the schedule I had  
10 originally entered in my order. So what can you tell me?

11 MR. VANDEVELDE: Your Honor, I think we're well  
12 within the three days allotted for our side, but we have three  
13 more witnesses -- four more witnesses.

14 THE COURT: All right.

15 And do you see us going over to Monday, which  
16 would actually be your third day?

17 MR. VANDEVELDE: It would depend on the length  
18 of cross-examination.

19 THE COURT: Okay.

20 MR. VANDEVELDE: But I would think that even  
21 with cross-examination being modest, that we would finish by  
22 Monday. That's what my anticipation would be.

23 THE COURT: All right.

24 Mr. Isaacson?

25 MR. ISAACSON: So we had two witnesses disclosed

1 from them for today, leaving two for Monday, plus your  
2 designations, so I'm unclear as to what's happening today as  
3 opposed to Monday.

4 But I agree we could finish -- I would like to  
5 know which witnesses are coming, but separate from that, I  
6 agree we could finish up witnesses on Monday, do the rebuttal  
7 case, and finish closings at the end of the day.

8 THE COURT: Okay. So the sense is, is that we  
9 will finish on Monday, is that what I'm picking up?

10 I'm not holding anyone firmly to that.

11 MR. VANDEVELDE: Yeah, I think -- and I think  
12 they know our witness list, there's only five.

13 Ms. Davenport would be next, and then  
14 Mr. Astrachan -- Professor Astrachan, and we have two more  
15 after that, Craig MacKereth and Stephen Lanchak.

16 I think those should be done by Monday. I would  
17 anticipate that closings would be Tuesday, I think, more  
18 likely, but between those, it's hard to tell.

19 THE COURT: All right. Well that gives me a  
20 sense of where we are. I was concerned about my schedule next  
21 week is why I asked the question.

22 MR. VANDEVELDE: Understood.

23 THE COURT: Okay. One other matter I had  
24 noticed. Originally in my order earlier in the month about  
25 this hearing, I had stated that I would give the parties

1 30 days to submit the proposed findings and conclusions.

2 That strikes me as much more time than counsel  
3 would really need, and I would rather move that up, so I'm  
4 thinking two weeks from when we finish, a 14-day schedule.

5 MR. ISAACSON: That's fine, your Honor.

6 MR. VANDEVELDE: Yeah, that's fine, your Honor.

7 THE COURT: All right. So coming back, I think  
8 we had some redirect examination by Mr. McCracken.

9 MR. McCracken: Your Honor, we have no further  
10 questions of Mr. Bengé. We ask that he be excused.

11 THE COURT: All right. Thank you very much, and  
12 he may be.

13 Does Oracle have any objection to excusing  
14 Mr. Bengé at this time?

15 MR. ISAACSON: No, your Honor. I just have to  
16 clean up something with exhibits.

17 THE COURT: All right.

18 MR. ISAACSON: I had spoken to the witness about  
19 Oracle Exhibit 30, or OREX\_30, and there's no objection to our  
20 admitting that.

21 And then your Honor may or may not recall that  
22 during the cross-examination of Mr. Bengé that I showed him  
23 and read out loud an excerpt from the deposition of Seth  
24 Ravin. This is page 22, lines 3 through 16, which discussed  
25 how he received reports from the compliance department about

1 violations of the Acceptable Use Policy.

2 We have -- that was read out loud. It's a party  
3 admission. We would like to move it and mark it as  
4 Exhibit 1352, and I understand there's an objection to that.

5 MR. MCCracken: Yes, your Honor. We object to  
6 that. There was a procedure in the prehearing order for  
7 deposition designations which would allow us to do  
8 counterdesignations.

9 They played the deposition of Mr. Ravin, I think  
10 it was yesterday, so there's a whole procedure for this that  
11 they didn't follow.

12 The fact that the deposition was part of his  
13 question to the witness who didn't know anything about it,  
14 doesn't make it evidence, so we object.

15 THE COURT: All right. Well, I'm going to admit  
16 it because it's certainly been before the Court. It was part  
17 of the record, and, as everyone knows, our court reporters  
18 aren't expected to report deposition testimony that happens to  
19 be played in the courtroom.

20 But I also appreciate the objection on behalf  
21 of -- on behalf of Rimini, but I will admit it based upon  
22 those comments.

23 MR. McCracken: And just for the record --

24 THE COURT: And 30, I assume there's no  
25 objection --

1 MR. McCRACKEN: Just for the record -- there's  
2 no objection to Exhibit 30.

3 THE COURT: All right. It's admitted.

4 (Plaintiff's Document Exhibit 30 received  
5 in evidence.)

6 MR. MCCRACKEN: But just for the record,  
7 Mr. Isaacson, you're only -- it's not the whole 1352 that you  
8 moved, It's the portions you read out loud?

9 MR. ISAACSON: Correct. It would be -- 1352  
10 will consist of page 22, lines 3 through 16, which are the  
11 lines I read out loud.

12 MR. MCCRACKEN: Okay. Thank you.

13 MR. ISAACSON: I may have skipped a word or two,  
14 but that was --

15 MR. McCRACKEN: I understand.

16 THE COURT: Okay. And that's the Court's  
17 understanding as well.

18 (Plaintiff's Deposition Excerpt Exhibit  
19 1352 received in evidence.)

20 THE COURT: All right. What's next?

21 MS. SAMPLIN: Your Honor, Rimini calls Brenda  
22 Davenport as its next witness, and she will be appearing  
23 virtually by Zoom.

24 THE COURT: All right. It take a few minutes to  
25 get this connected.

Katie, would it be preferable to take a short  
recess or are you comfortable with --

1 THE CLERK: I'm comfortable.

2 THE COURT: All right. Let's do that.

3 (Proceedings paused.)

4 THE CLERK: May I swear her in?

5 THE COURT: Yes, go ahead, please.

6 BRENDA CROUCH-DAVENPORT  
7 called as a witness on behalf of the Defendant,  
8 was sworn and testified as follows:

9 THE CLERK: And, ma'am, if I can ask you to  
10 please speak up.

11 Will you please state your name for the record.

12 THE WITNESS: Yes, it's Brenda Crouch-Davenport.

13 THE CLERK: Will you please spell your last  
14 name.

15 THE WITNESS: It's hyphenated. It's  
16 C-r-o-u-c-h, dash, D-a-v-e-n-p-o-r-t.

17 THE CLERK: Thank you.

18 THE WITNESS: Can you hear me okay?

19 THE CLERK: I think so.

20 DIRECT EXAMINATION

21 BY MS. SAMPLIN:

22 Q Good morning, Ms. Davenport. Thank you for being here  
23 today.

24 Can you just tell the Court why you are appearing  
25 virtually today?

A I can, and thank you for asking that question.

1 I didn't feel comfortable traveling with the  
2 pandemic, and so I'm very thankful for the Court for allowing  
3 me to testify remotely today. So, I do appreciate that, thank  
4 you.

5 Q Ms. Davenport, where do you currently work?

6 A Rimini Street.

7 Q And for how long have you been working at Rimini Street?

8 A It's a little over 13 years.

9 Q When did you first join Rimini Street?

10 A October 20th of 2008.

11 Q Can you please tell the Court some of the roles you've  
12 had over the course of your 13-year career at Rimini.

13 A Sure. All of my jobs here at Rimini Street have been in  
14 the quality assurance department. I began as a Senior QA  
15 Engineer and then began promoting throughout the management  
16 section of the quality assurance team.

17 I've been the Manager, Senior Manager, Director,  
18 Senior Director, Vice-President, and, recently, Global  
19 Vice-President.

20 Q What is quality assurance?

21 A Quality assurance is ensuring that what we have  
22 developed, the tax and regulatory update, making sure that  
23 what has been developed is working correctly as we expect in  
24 each of our clients' specific environment.

25 Q And what is your current job title at Rimini today?



1 A Global Vice-President of Quality Assurance.

2 Q Did you have any quality assurance experience before  
3 joining Rimini Street?

4 A I did. I began working with quality assurance in 1999,  
5 so I have over 20 years.

6 Q Today at Rimini Street how many people are on the global  
7 quality assurance team that you oversee?

8 A Eight-two.

9 Q And where is your team physically located?

10 A My team is global, so we have of course the US and India,  
11 or Hyderabad and Bangalore, and then I have Australia and  
12 London.

13 Q Now, you mentioned tax and regulatory updates, and we've  
14 heard a lot about tax and regulatory updates at this hearing  
15 so far. Does your team develop those tax and regulatory  
16 updates for Rimini's client?

17 A No, we do not develop, we test.

18 Q So does your team test the updates that Rimini develops  
19 for its PeopleSoft clients?

20 A Yes, we test.

21 Q And what is the purpose of that testing done by your  
22 quality assurance team?

23 A So my team's responsibility is to make sure that when the  
24 tax and regulatory update is developed that they go in, in  
25 each specific client's environment, and test that update to

1 make sure that we have the expected outcome.

2 Q Are there different types of tests that your team runs?

3 A Yes, there's individual update testing and bundle  
4 testing.

5 Q What is an individual update test?

6 A An individual update test is specific to one tax  
7 and regulatory change. So when the -- they go in, and the  
8 development team develops it in each of our clients, and then  
9 they package it with the documentation and put it out there  
10 for the QA team to apply to our QA testing environment on the  
11 client side.

12 And then my team goes in and ensures that it's  
13 calculating, for example, or a page looks correct, whatever it  
14 may be. They are validating the outcome of it to ensure it's  
15 correct.

16 Q And what is the difference between an individual test and  
17 a bundle test?

18 A So an individual test is one specific tax and regulatory  
19 change, where a bundle test is a package -- or a formal  
20 delivery that we give the client that has a group of  
21 individual updates.

22 They're bundled together, and they are -- the code  
23 is merge, for example, and the documentation lists all the  
24 objects in that bundle, and then we go in and test that as  
25 well.

1 Q So the bundle test tests multiple individual updates  
2 within the bundle; is that correct?

3 A Yes, it is. And it's -- I know -- an individual update  
4 is actually tested twice.

5 Q What is the --

6 A (Unintelligible).

7 Q I'm sorry?

8 COURT REPORTER: I didn't hear that.

9 BY MS. SAMPLIN:

10 Q Can you say the end your answer again, Ms. Davenport?

11 A Yes. It's tested in individual update as well as in the  
12 bundle. So it's essentially tested twice.

13 Q Now, what is the first step of quality assurance testing?

14 A Our first step is actually to go review the tax and  
15 regulatory change.

16 Q And what does your team generally do with the information  
17 it learns after reviewing the tax and regulatory change?

18 A So they're going to review it and determine what needs to  
19 be tested, and then they're going to start creating their test  
20 plan.

21 Q What is a test plan?

22 A So a test plan is a step-by-step guide or list of tasks  
23 that the QA tester is going to walk through in that specific  
24 client's environment, because each test plan is specific to a  
25 client, and they're going to go through those steps or tasks

1 in each of the client's environments to validate the tax and  
2 regulatory change that was developed is working properly or as  
3 expected, kind of like a (inaudible).

4 Q I'm sorry, can you say that end of your answer, again,  
5 please.

6 A Sure. It's kind of like an instruction manual for the QA  
7 tester.

8 Q And do members of your team create the test plan?

9 A Yes.

10 Q Are screenshots ever included in test plans?

11 A There are screenshots in there of maybe an online page, a  
12 section of it, and it will typically have a highlighted, say,  
13 a box.

14 Say a year is changing online for a page, and it  
15 will have that section to tell the tester, "Hey, go look at  
16 this and make sure that the date is correct," and it will be  
17 highlighted in the test plan.

18 Q Do those screenshots or the test plans, more generally,  
19 ever contain Oracle code?

20 A No, and let me be clear on that. There is no Oracle code  
21 in our test plans.

22 Q Are test plans created for individual tests?

23 A Yes.

24 Q And are test plans also created for bundle tests?

25 A Yes.

1 Q How does your team go about using a test plan?

2 A So they go in for each specific client and then apply the  
3 bundle, or an individual update in that client, and they are  
4 going to go and follow each of the steps in that test plan  
5 that ensure that the tax and regulatory change is working as  
6 we would expect it to.

7 Q And where are these test plans stored?

8 A They're stored in Spira.

9 Q What is Spira?

10 A Spira is an online database that we have here at Rimini  
11 Street that all of our test plans organize.

12 Q And can you tell the Court how Spira is organized.

13 A Sure. It's by individual update and (inaudible) --

14 Q We lost you after "by individual update."

15 A And by bundle.

16 Q Okay. So Spira is organized by individual updates and by  
17 bundles?

18 A Yes.

19 Is this better? Let me put this up here.

20 Q Okay. We'll try that.

21 Where does the quality assurance team actually run  
22 the individual and bundle tests?

23 A In each individual client's environment.

24 Q In your work in quality assurance testing, are you  
25 familiar with the term run to success?

1       A     Yes, I am.

2       Q     What does that term run to success mean?

3       A     So run to success -- it's kind of like a slang, I guess  
4     you would say.

5               It's a term where we go in, and we'll tell a QA  
6     tester to ensure that they run to success. But when you say  
7     run to success, it's not just taking a program and putting it  
8     in an environment and running it to success.

9               There's more things you do in that environment. You  
10    do put the program in and you make sure it does run to  
11    success, but we always do that.

12              But it also -- you have to go in and make sure that  
13    the check is calculating correctly, for example, or the table  
14    has been updated, or the page has been updated, whatever the  
15    objects are touching.

16              It's kind of like an AirPods, like your AirPods  
17    headset, you connect it to your phone, your iPhone, and when  
18    you do, you push the button on the AirPods, it says connecting  
19    on your phone, and then once it's connected, it's paired.  
20    That's your run to success.

21              But it's not the only test you do because then you  
22    have to take the AirPods, put it in your ear, tap it, and hear  
23    the sound and make sure sound is coming out.

24              So a run to success is a term that some people  
25    think, oh, they're just running it to success. Well, running

1 to success is a test for sure, but it's only a part of the  
2 test. There's other things that have to happen as well.

3 Q So earlier in this hearing we heard about something  
4 called the Apply Update tool. Are you familiar with the Apply  
5 Update tool?

6 A I am.

7 Q Well, what is the tool?

8 A So the Apply Update tool is a tool that we created here  
9 at Rimini Street. Myself and my team and one of our  
10 developers worked to build a tool that applied the individual  
11 update or the bundles to each specific client that I talked  
12 about.

13 The Apply tool is on that client, and it only  
14 applies to that client's bundle or individual update, and it  
15 prints out reports for us to look at, for example, and has  
16 things -- it's another form of a test by looking at those  
17 reports.

18 It also has an apply log that gives us a lot  
19 information. It shows us objects and if they were run to  
20 success for example.

21 Q Just to break that down a little bit, where does this  
22 process with the Apply Update tool that you just described,  
23 where does it take place?

24 A In each specific client's environment.

25 Q And you mentioned that the Apply Update tool creates

1 reports or logs. What do those reports show?

2 A So the Apply log, like I said, it will tell you what  
3 client you're in, it will tell you if it was run for -- of  
4 course you're in the environment looking at it, and it will  
5 tell you who the tester was. It will tell you what objects  
6 were applied, and if it was successful.

7 We also have a report in there, for example, that  
8 shows that you have a DMS script in your package. So it  
9 applies to a DMS script.

10 It will show you the before table and the after  
11 table and highlight it. It's -- there's also a list of  
12 objects, for example, but it's really something we created to  
13 help us test. It's another tool for us to use.

14 Q Does your team ever apply updates manually without using  
15 the Apply Update tool?

16 A Oh, yes. And they don't like to because they like all  
17 the reports, but it can -- if it's not running -- and  
18 sometimes there could be an environment issue or -- that's  
19 keeping it from running, and so we have to go ahead.

20 We'll notify the client and say, "Hey, you have an  
21 issue with your environment," but we go ahead and apply it  
22 manually. But you don't have the logs and the reports, so  
23 that's why the QA team likes that.

24 Q Okay. So the preference is to try the Apply Update tool  
25 but to go ahead and perform a manual test if the Apply Update



1 tool won't run for some reason; is that right?

2 A Oh, yes, yes. We have to keep going.

3 Q Is your team able to confirm whether quality assurance  
4 testing has been done for a particular client update?

5 A Yes. There's a couple of things that you can look at.

6 First, they're going to look at Spira, of course,  
7 and then they'll look at the apply logs, and next they'll look  
8 at what we have -- or what we call an environment spreadsheet.

9 Q What is an environment spreadsheet?

10 A An environment spreadsheet is something that our QA team  
11 creates. It is a one-stop shop kind of a spreadsheet where we  
12 can keep track of all of the clients that are in scope for  
13 that individual update.

14 And it has the names of the client, their  
15 three-digit alpha code. It has the developer, their status of  
16 where they are, if they're in progress, completed, or not  
17 started. It has the QA engineer on it, same status.

18 And then it has a comment section. So in that  
19 comment section we'll note things if there's an environment  
20 issue or if there's a problem with their delivery or package  
21 or whatever it may be.

22 Q Are these environment spreadsheets stored on Rimini  
23 internal systems or third-party systems?

24 A They're stored internally for us.

25 Q And who has access to the environment spreadsheets?

1 A Rimini Street QA and developers.

2 Q Can anyone outside of Rimini Street access environment  
3 spreadsheets?

4 A No.

5 Q So tell us a little bit more about how the quality  
6 assurance team uses an environment spreadsheet in the  
7 day-to-day course of its work.

8 A Sure. As I talked about, it's kind of like a one-stop  
9 shop. So it's -- my team is global. We have US engineers and  
10 we have India engineers for example.

11 And instead of having hand-off meetings, they use  
12 these spreadsheets to show where they are so I don't have two  
13 employees picking up the same update to test, one in the US  
14 and one in India.

15 They have to go in and put their name in it and then  
16 give a status. If they started it, they put in progress, and  
17 that allows us to keep organized.

18 Q So does the environment spreadsheet keep track of the  
19 testing status of particular updates across clients?

20 A Yes. It will say whether it's not started, in progress,  
21 or completed.

22 Q Is there any testing that Rimini employees perform of  
23 updates before the quality assurance testing we've been  
24 discussing?

25 A Yes. There's a unit test performed by the development

1 team.

2 Q What is unit testing?

3 A So unit testing is when the developer goes in and they  
4 have developed a change for a specific client. They go in and  
5 either run that, say, COBOL -- oh, there you go -- run the  
6 COBOL to success and validate the output is expected.

7 Q And where does this unit testing take place?

8 A In the client's development environment.

9 Q So is your team involved at all in unit testing?

10 A No. Sometimes we may help with data setup, but that's  
11 typically a development function.

12 Q Are you familiar with informal updates?

13 A Yes, uh-huh.

14 Q What is an informal update?

15 A An informal update is -- a good example is when we have a  
16 sales case that comes straight from a client. Say a client is  
17 needing an update. We partner with them, and so sometimes  
18 they have a window, for example, that they want a testing.  
19 Maybe their system is going down or whatever it may be.

20 So they'll reach out to us and say, "Hey, is there  
21 any possible way we can get this earlier? We have a delivery  
22 date coming up and we need it quicker."

23 So they will -- we work with the client. It's  
24 typically the Dev and QA team will work with them and say,  
25 "Sure, we can do that, but please understand we're going to

1 give you an informal delivery, which is the objects, and then  
2 we will have the QA team come back and give you the formal  
3 delivery which will be your package and your documentation."

4 We also let them know that if there's an issue when  
5 my team goes in and tests it, we're going to work with them  
6 and make sure they understand that, "Hey, we found an issue,  
7 we're going to give you a new COBOL," for example.

8 Q So your quality assurance team would test the informal  
9 update after it has been delivered to the client; is that  
10 right?

11 A Yes.

12 Q But is there any testing that occurs before the informal  
13 update is delivered to the client?

14 A Yes. That's the full unit testing with the development  
15 team.

16 Q Are informal updates common?

17 A No, they're not.

18 Q So if there's no Spira test plan, Apply Update log, or  
19 environment spreadsheet for a particular update, what, if  
20 anything, would that indicate to you about whether testing was  
21 done for that update?

22 A In that case, on smaller or it might be informal, I -- it  
23 was tested. We do not deliver something to a client without  
24 it being tested, and a unit form is a form of a test.

25 Q So if you're looking into a particular update and there's

1 no Spira test plan, Apply Log, or environment spreadsheet for  
2 that update, would you conclude that testing did not occur?

3 A No. I can guarantee you it did occur. It's our  
4 practice.

5 Q Okay. Let's switch gears now and talk about a few of the  
6 specific issues the Court has asked the parties to address in  
7 this hearing.

8 A Okay.

9 Q Are you aware that one of those issues concerns an update  
10 to 1099 forms for Easter Seals New Hampshire?

11 A Yes.

12 Q What was this update?

13 A This update, I believe, was the 1099 -- I'm trying to  
14 think which one this one was, the rsi940.

15 Q This is the 1099 update.

16 A This is the 1099. Yes, sorry.

17 Q And was your team involved in quality assurance testing  
18 the updates, the 1099 forms for Easter Seals?

19 A Yes, they were.

20 Q If we can take a look at Exhibit DTX-605.

21 And, Ms. Davenport, just so the record is clear, you  
22 have a binder of exhibits in front of you for direct  
23 examination, correct?

24 A Yes. I didn't have it open, sorry.

25 Q Okay. DTX-605, Exhibit 605 which was pre-admitted, what

1 is this?

2 A This is a Spira test plan, and this is for FSCM,  
3 financials, 100126, for Easter Seals. The three-digit alpha  
4 code right there is EAS which is for Easter Seals.

5 It is for scheduled release RS-18F03. It was tested  
6 by Kimberly Borst. It was completed and passed, as you can  
7 see the green up at the top.

8 It was updated on 3-18 -- or tested on 3 -- I'm  
9 sorry, 3/8 of 2018, and it was for the 1099 INT form.

10 Q And can you just explain to the Court how you can tell  
11 that this particular test for the 1099 INT form for Easter  
12 Seals passed.

13 A It says completed in the execution status history.

14 If you go down to -- I believe there's a second page  
15 on this one. Can we go down to the next page, please?

16 The execution status off to the right you can see on  
17 each one is passed.

18 Q And so that indicates for you that the test was completed  
19 and passed for Easter Seals for the 1099 INT form?

20 A Yes, that section and the section at the top that showed  
21 the green status, and the word complete.

22 Q And can you just point the Court to how you can tell this  
23 particular test was for the 1099 INT form?

24 A One, you can look at the test cases right there, but if  
25 you go back to the first page, there is -- and I'll say use a

1 description box.

2 Q So we see second lot -- two lines up from the bottom in  
3 the description box you see the 1099 INT form.

4 A Yes. Sorry, it's a little blurry on my side.

5 Q Okay. Let's take a look at Exhibit 606, which is also  
6 pre-admitted.

7 A Okay.

8 Q And what is this document?

9 A So this document is FSCM -- again, financials -- 100127  
10 update for Easter Seals, again, the EAS. It was created by  
11 Kimberly Borst. The status is completed, the execution status  
12 is passed, and the date on it is 4/18 of 2018.

13 And if you go to the second page, you will see the  
14 1099 MISC is what was tested, and the execution status is  
15 passed.

16 Q And so what does that indicate to you, Ms. Davenport?

17 A That this was tested, and it completed, finished, and  
18 everything passed.

19 Q Okay. Let's take a look at the next Exhibit 601 which is  
20 also pre-admitted. Ms. Davenport, what is this document?

21 A This document is for financials, FSCM 100130 and 100131,  
22 Easter Seals. It is for the 1099 Miscellaneous.

23 It is for scheduled release RSI-18F07, and the  
24 creator was Kimberly Borst. It got passed and was completed  
25 on 7/16 of 2018.

1           It was for the 1099 Miscellaneous, nonemployee  
2           compensation, or NEC form, 1099 Miscellaneous vendors. It was  
3           tested, and all test cases passed successfully.

4           Q     Okay. And Mr. Jay is just pulling up the bottom of the  
5           second page. Can you just explain to the Court again what  
6           this portion of the document that was just highlighted in red  
7           boxes shows?

8           A     Yes. It shows that the test cases for the 1099  
9           Miscellaneous passed all of their tests for Easter Seals.

10          Q     That's what I was going to ask, what client was this for?  
11          It was for Easter Seals?

12          A     Yes.

13          Q     Okay. So to sum up the three Spira records we just  
14          viewed, do they reflect to you that Rimini's updates to the  
15          1099 MISC and the 1099 INT forms were tested for Easter Seals?

16          A     Yes.

17          Q     And was that testing successful?

18          A     Yes.

19          Q     Let's now switch gears to talking about a different issue  
20          in this case. Are you familiar with an update called  
21          HCM200105 which is one of the updates which is the subject of  
22          the Court's order?

23          A     Yes.

24          Q     So the Court's order focuses on whether HCM200105 was  
25          developed and tested in the environments of two specific



1 clients, Home Shopping Network and Rockefeller Group  
2 International.

3 Was your team involved in testing the updates for  
4 these two clients?

5 A Yes, my team was.

6 Q Okay. Let's please take a look at Exhibit 1004 which was  
7 pre-admitted, and the first page you can see some metadata  
8 here.

9 A Yes.

10 Q Can you tell the document title from this metadata?

11 A I can. It's for HCM200105, it's our environment  
12 spreadsheet that we talked about, and it's for new clients, so  
13 clients coming in.

14 Q And so this is an environment spreadsheet for HCM200105;  
15 is that right?

16 A That is correct, for new clients.

17 Q And so what -- if we can go to the first page -- or I  
18 guess the second page of this exhibit, please. What does this  
19 document show?

20 A This document shows a list of all of our new clients. It  
21 shows the client name, the three-digit alpha code that we  
22 discussed earlier, the application release, the client tools,  
23 the last Oracle update, which one of my team is testing it,  
24 Kim Banner Scrum (phonetic). It tells who the developer is  
25 that is developing it, as well as the status. It tells the

1 tester and it tells the status of the testing.

2 It also gives the comments as to what -- if there's  
3 anything involved with any of these. As you can see, some of  
4 them say NA or HSH. You can see they haven't received their  
5 first deliverable, so we'll give it to them, just not right  
6 now.

7 Q Okay. And I know you mentioned this earlier, but can you  
8 remind the Court, how does your team use an environment  
9 spreadsheet like this one?

10 A Sure. It's to keep us organized and make sure that we  
11 get all of the development and testing completed for each and  
12 every client on the list.

13 Q And are the two clients I mentioned a bit ago, Home  
14 Shopping Network and Rockefeller Group International, are they  
15 reflected in this environment spreadsheet?

16 A Yes. They're the last two clients on the list.

17 Q So let's look specifically at the row for Home Shopping  
18 Network. Under the column "Tester" is listed the word  
19 Balamani. What is that?

20 A Balamani is a tester on my team in India.

21 Q And looking at the row, then, for Rockefeller Group  
22 International, the last row, I see Savithri written under  
23 tester. Who's that?

24 A He's a tester in India as well.

25 Q Can you tell from this document whether HCM200105 was

1 tested for Home Shopping Network?

2 MS. SMITH: Objection, your Honor --

3 THE WITNESS: Yes.

4 MS. SMITH: -- foundation.

5 THE COURT: We have a foundation objection.

6 MS. SAMPLIN: I can rephrase my question.

7 THE COURT: All right. Would you do that,  
8 please.

9 MS. SAMPLIN: Sure.

10 BY MS. SAMPLIN:

11 Q What, if anything, does this spreadsheet indicate to you  
12 about testing of HCM200105 for Home Shopping Network?

13 MS. SMITH: Objection, your Honor, lack of  
14 foundation as to the document.

15 THE COURT: Well, it's been pre-admitted, and I  
16 think she's entitled to testify as to her understanding of it.  
17 I'll allow the question.

18 BY MS. SAMPLIN:

19 Q Would you like me to repeat the question, Ms. Davenport,  
20 or do you have it in mind?

21 A I have it in mind.

22 This spreadsheet shows that Balamani, on my team,  
23 completed the testing of the Home Shopping Network.

24 Q And same question for Rockefeller Group International,  
25 what does this document indicate for you, if anything, about

1 whether HCM200105 was tested for Rockefeller Group  
2 International?

3 A It shows that Savi tested and completed her testing for  
4 Rockefeller Group International for 200105.

5 Q Let's take a look at Exhibit 1009 which was pre-admitted.

6 A Okay.

7 Q Are you familiar with this document?

8 A Yes, this is my Apply log that we created.

9 Q I know this is a bit difficult to read, so did you help  
10 create a demonstrative of this document to direct the Court to  
11 specific areas of the document?

12 A Yes, I did. I believe they have it.

13 MS SAMPLIN: Yeah, let's pull up demonstrative  
14 401, please.

15 BY MS. SAMPLIN:

16 Q And is this the demonstrative that reflects the exhibit  
17 we were just looking at?

18 A Yes.

19 Q Now, can you tell from this log file whether the Apply  
20 Update tool was run?

21 A Yes, I can. As I talked about earlier, the Apply log  
22 is -- while it's real pretty, it does give you a lot of  
23 information.

24 It tells you will what client -- for example, this  
25 one was client HSP, which is Home Shopping Network.

1           It tells me that Balamani, which is her last name.  
2       So B is her first initial, and then K-a-l-l-a is her user  
3       name, so it tells me that she ran it.

4           It tells me what network it was run. In other  
5       words, it was run off the QA environment. That's the  
6       HSDWPSW002, the run location.

7           It also tells you that it -- HCM200105 finished  
8       successfully in the last highlighted section.

9       Q     Okay. Now, you mentioned Balamani. Is that the same  
10      person we saw on the environment spreadsheet for this update  
11      for HSP?

12      A     Yes.

13      Q     Now, if you could go to the next demonstrative, please,  
14      402, and this is the bottom of Exhibit 1009. Can you explain  
15      to the Court what this shows.

16      A     Sure. It says that it finished building update in the  
17      client's environment, or finished running the Apply log for  
18      update HCM200105, and it ran successfully.

19      Q     And so what, if anything, does this document tell you  
20      about whether HCM200105 was tested for Home Shopping Network?

21      A     It was tested and it applied successfully.

22      Q     Let's take a look at Exhibit 1013 which was pre-admitted.

23           Now, what is this document?

24      A     So this is also an Apply log.

25      Q     And if we can take a look, please, at demonstratives that

1 were created to help pull out some information from this  
2 document. The first one is demonstrative 403.

3 And does this demonstrative reflect portions of  
4 Exhibit 1013 that we were just looking at?

5 A Yes, it does.

6 Q So what does this portion of the Apply Update log  
7 indicate to you, Ms. Davenport?

8 A This tells me that we applied the update to Rockefeller,  
9 which is the RKF. It also shows that Savi was the user. Her  
10 last name is Gorli, so her first initial is S, last name,  
11 G-o-r-l-i, and she was the one that ran it.

12 It was run on Dev HC92APP-RST, which is our QA  
13 environment, for Rockefeller, and it finished successfully for  
14 update HCM200105.

15 Q And Savithri who you mentioned, is that the same tester  
16 we saw on the environment spreadsheet for Rockefeller Group  
17 International?

18 A Yes.

19 Q If we could take a look at next demonstrative, please,  
20 404. Now, this is the end of Exhibit 1013, which we  
21 previously looked at. What does this indicate to you,  
22 Ms. Davenport?

23 A It says that the update HCM200105 successfully applied to  
24 Rockefeller.

25 Q So, in total, this document, Exhibit 1013, what does it

1 tell you about whether HCM200105 was tested for Rockefeller  
2 Group International?

3 A It tells me it was successfully tested and applied.

4 Q Let's switch gears to talk about a third issue in this  
5 case which concerns development and testing for the update  
6 HCM200049 for Matheson Trucking, Smead Manufacturing, and  
7 Spherion, including the SQR file rsi940a.sqr.

8 Are you familiar with the update HCM200049?

9 A I am.

10 Q Was your team involved in testing the update?

11 A Yes, they were.

12 Q And did your testing -- your team's testing include the  
13 SQR file, rsi940a.sqr?

14 A It did.

15 MR. SMITH: Objection, your Honor, lacks  
16 foundation.

17 THE COURT: Would you repeat the question,  
18 please.

19 MS. SAMPLIN: Did your team's testing of  
20 HCM200049 include testing of the SQR file, rsi940a.sqr?

21 THE COURT: I'll allow the question.

22 THE WITNESS: We did test it, yes.

23 BY MS. SAMPLIN:

24 Q So let's walk through what happened for each of the  
25 clients at issue.

1 I'd like to show, first, Exhibit 210. Do you know  
2 what this document is, Ms. Davenport?

3 A Yes, I do. That is an e-mail that we received from  
4 Salesforce for Matheson Trucking for case number 00162054.

5 I was put on it as an interested party, and so my  
6 name is in the "to" field, and it's for a case where they say  
7 that they're missing the 940 template.

8 Q And what is Salesforce?

9 A Salesforce is our tool that we work with our clients and  
10 communicate with them. They go in and they will enter, for  
11 example, maybe a question that they have on a tax and  
12 regulatory update, or if they have a problem with their  
13 deliverable, they're going to put a case in, and then we work  
14 with them on that case.

15 Q And did Rimini use Salesforce in the regular course of  
16 its business in 2019?

17 A Yes.

18 MS. SAMPLIN: I'd like to move Exhibit 210 into  
19 evidence.

20 MS. SMITH: One minute, your Honor.

21 THE COURT: All right.

22 MR. SMITH: No objection.

23 THE COURT: It's admitted.

24 (Plaintiff's Document Exhibit 210  
25 received in evidence.)



1 BY MS. SAMPLIN:

2 Q Now, we've heard testimony in this case that Salesforce  
3 tracks client cases. What is a client case?

4 A So a client case is something that can be a question or a  
5 problem with a deliverable, or a question about a deliverable,  
6 that comes from the client, and they are putting in a client  
7 case for us to respond to that client case.

8 Q Do you know who added you to this case notification?

9 A I don't. It doesn't tell me on this page. My guess  
10 would be Teresa or Anil. They're the primary support  
11 engineers.

12 Q Did you read this communication when you received it?

13 A Yes.

14 Q What did you understand this communication to mean when  
15 you received it?

16 A That we were giving an informal update, HCM200049, to the  
17 client so that they could pick it up, and we were giving them  
18 a F940\_2018.gif file, F9401\_2018.gif file, and rsi940a.sqr.

19 Jim was also telling them that this is --

20 Q I'm sorry. Ms. Davenport, can you start again from the  
21 three items included at the beginning. The court reporter  
22 couldn't hear you, and if you could slow down a little bit,  
23 that would be great.

24 A Okay. I'm so sorry.

25 Yes. This is an e-mail to the client telling them

1 that we are giving them an informal update for HCM200049, and  
2 we're telling them it's available for them now to address  
3 their client case, and they can pick it up, and where they can  
4 pick it up.

5 It's a -- two GIF files, F940\_2018.gif,  
6 F9401\_2018.gif, and rsi940a.sqr. Jim is also telling them  
7 that this change will be formally delivered in the upcoming  
8 update.

9 Q Do you know why Rimini provided an informal delivery of  
10 this update to Matheson Trucking?

11 A Yes. If you go back to the date of this, it is -- this  
12 940 is due on the 31st, and Matheson Trucking was missing it,  
13 and so we were trying to get it to them as quick as we can  
14 because they have short testing window.

15 So we gave it to them as an informal update, letting  
16 them know, you know, we have not formally tested it, but we're  
17 going to give it to you so that you can go ahead and get your  
18 testing done.

19 If we find issues, we will come back to you and let  
20 you know, and, if we need to deliver something, we will.

21 Q Let's take a look at Exhibit 201, which is pre-admitted,  
22 please. What is this document, Ms. Davenport?

23 A That's our Apply log.

24 Q Okay. And you helped create a demonstrative to pull out  
25 particular pieces of this Apply log, right?

1 A Yes.

2 Q Okay. So if we can pull up that demonstrative, please,  
3 which is 405. Can you tell us what this Apply log shows.

4 A Sure. It tells me it's an Apply log for HCM200049.

5 It tells me it's for client Matheson Trucking, or  
6 M-A-T.

7 It says it's for the QA environment where it says,  
8 "Use QA as true." It also says that it finished completely.  
9 So it applied HCM200049 successfully and tested it.

10 Q Now, why was this update tested in QA on January 29th  
11 after it was delivered on January 28th?

12 A As we noted, or Jim stated in the client case, we were  
13 giving them an informal update. So while that one is tested,  
14 it's unit tested in the development environment, we are  
15 testing it when we're delivering to everybody else as a formal  
16 delivery, and the formal delivery, of course, has their  
17 documentation, where the informal delivery is just the  
18 objects.

19 Q If the test had not run successfully at this point on  
20 January 29th, would your team have informed Matheson Trucking  
21 of that fact?

22 A Oh, yes, uh-huh.

23 Q Let's take a look, please, at Exhibit 205.

24 And what is this document, Ms. Davenport?

25 A This is a client case for Matheson Trucking for client

1 case 00162054.

2 MS. SAMPLIN: I'd like to move this exhibit into  
3 evidence, please.

4 MS. SMITH: It is my understanding that it was  
5 admitted yesterday, so we have no objection.

6 MS. SAMPLIN: I apologize. Yes, it was admitted  
7 yesterday. Thank you.

8 THE COURT: All right. It is admitted.

9 BY MS. SAMPLIN:

10 Q Ms. Davenport, are you listed as a recipient of this  
11 communication?

12 A Yes. I was added to the client case as an interested  
13 party, and so I'm in the "to" field.

14 Q Did you read this communication when you received it?

15 A Yes.

16 Q Now, if we could look at the middle of the page, you see  
17 there is a message from somebody named Mark. Do you see that?

18 A Yes.

19 Q Do you know who Mark is?

20 A I do. He works for Matheson Trucking.

21 Q And if we pull out, Mark says,

22 "I thought I already replied to your system  
23 that the files were successfully retrieved and tested  
24 and that this case could be closed. Sorry if it  
25 didn't update you."

1                   What did you understand Mark to be communicating  
2 in this message when you received it?

3       A     So Mark picked up the objects that Jim had put out there  
4 in the informal delivery, applied it to their testing  
5 environment that Matheson Trucking uses, and applied it and  
6 tested it successfully.

7                   He's saying we can close the case because everything  
8 works as he expects it.

9       Q     Let's now talk about Smead Manufacturing. Can we please  
10 take a look at Exhibit 405. And what is this document,  
11 Ms. Davenport?

12       A     This is a Salesforce case for Smead Manufacturing Company  
13 for client case number 00161188, and I was added on here as an  
14 interested party as well.

15                   MS. SAMPLIN: I would like to move Exhibit 405  
16 into evidence, please.

17                   MS. SMITH: No objection.

18                   THE COURT: It's admitted.

19                                   (Plaintiff's Document Exhibit 405  
20                                   received in evidence.)

21 BY MS. SAMPLIN:

22       Q     Did you read this document when you received it,  
23 Ms. Davenport?

24       A     I did, yes.

25       Q     And if we could take a closer look at the text, thank  
you. This text says,

1                   "Hi, Maureen, an informal update, HCM200049,  
2                   is now available to address this case," and it goes  
3                   on to list different files.

4                   What did you understand this communication to  
5                   mean when you received it?

6           A     So what Jim is saying in this one is an informal update  
7           for HCM20049 is available for the client to pick up and test,  
8           and he tells them where to pick it up on the DEF machine, and  
9           it is for two GIF files, F940\_2018.gif, F9401\_2018.gif, and  
10          then rsi940a.sqr.

11                  He is also telling them that this is an informal  
12          delivery, and a formal delivery will be coming at the proposed  
13          date that we told them.

14          Q     And can you remind us the date of this document, please.

15          A     Yes. There you go. Thank you. January 25th of 2019.

16          Q     Okay. If we can please take a look at Exhibit 402 which  
17          is pre-admitted. Ms. Davenport, is this another Apply Update  
18          log?

19          A     Yes.

20          Q     And you helped create a demonstrative to pull out  
21          particular portions of this Apply Update log, correct?

22          A     Yes.

23          Q     Okay. If we can take a look at that demonstrative,  
24          please, 406.

25                  Can you please explain to the Court what these

1 portions of the Apply Update log reflected in Exhibit 402  
2 show.

3 A So this is the Apply Update log for HCM200049. It's for  
4 client Smead Manufacturing, or SME. It's being run in a QA  
5 environment, you see where it says "use QA equals true."

6 It also states that HCM200049 was successfully  
7 applied and tested.

8 Q So does this document tell you whether this update was  
9 tested for Smead Manufacturing?

10 A Yes.

11 Q And was that test successful?

12 A Yes, it was.

13 Q Can you explain to us why the update was delivered on  
14 January 25th, 2019, but we see here in the Apply log that the  
15 test was run on January 29th, 2019?

16 A Yes. As the case stated, we gave them an informal  
17 delivery, which is the objects, and told them that we would be  
18 testing it formally at a later date.

19 This is the formal delivery, so the date is after  
20 the informal delivery.

21 Q Let's take a look, please, at Exhibit 406. What is this  
22 document, Ms. Davenport?

23 A This is a client case for Randstad Professionals, or  
24 they're also called Spherion, for client case number 00160772.  
25 I was added as an interested party to this, so my name is on

1 it in the "to." It was on January 25th of 2019, and it was  
2 for the tax update F940 2018 delivery.

3 MS. SAMPLIN: I'd like to move Exhibit 406 into  
4 evidence.

5 MS SMITH: No objection, your Honor.

6 THE COURT: It is admitted.

7 (Plaintiff's Document Exhibit 406  
received in evidence.)

8 BY MS. SAMPLIN:

9 Q Did you read this document when you received it,  
10 Ms. Davenport?

11 A Yes, I did.

12 Q And if we could look at the text starting with,

13 "Hi, Juan, An informal update, HCM200049, is  
14 now available to address this case."

15 And it goes on to list three different files.

16 Can you explain to the Court what you understood  
17 this communication to mean when you received it.

18 A Yes. We were telling Juan that for 200049 we were giving  
19 them an informal update to address this client case, and  
20 telling him that he can go pick it up on their Dev machine and  
21 giving that location.

22 It's also the same two GIF files, F940\_2018.gif and  
23 F940\_2018.gif, as well as rsi940a.sqr.

24 Q And what --

25 A Oh, sorry.



1 Q We're probably going to the same place, but I was going  
2 to ask you what the next line of the document means where it  
3 says,

4 "These changes will also be formally  
5 delivered in a subsequent update."

6 A Yes, that's correct.

7 So we're giving them their objects now, and then my  
8 team will go back and be formally tested.

9 Q Let's take a look, please, at pre-admitted Exhibit 403,  
10 and, Ms. Davenport, is this another Apply Update log?

11 A Yes, it is.

12 Q And did you also help create a demonstrative to pull out  
13 particular portions of this Apply Update log?

14 A Yes.

15 Q Okay. If we can take a look at demonstrative 407,  
16 please.

17 Now, can you explain to the Court what these  
18 portions of the Apply Update log indicate to you about client  
19 Spherion.

20 A Yes. The Apply Update HCM200049 was applied to Spherion,  
21 which is the SPH SFN group. It was applied in the QA  
22 environment, they "used QA is true."

23 This one actually is different from the other ones  
24 because it did fail to build. So the DMS group in this one  
25 looks like it was missing, and it failed to apply.

1 MS. SAMPLIN: And if you can just, Mr. Jay, pull  
2 up the bottom a little bit because I think Ms. Davenport's  
3 screen is blocking the text at the bottom.

4 BY MS. SAMPLIN:

5 Q And are you looking at the bottom highlighted text,  
6 Ms. Davenport, that says "failed to apply"?

7 A Yes, that's correct. It failed to apply because it  
8 couldn't find it in the folder.

9 Q Let's take a look at the next exhibit, 404, which is  
10 pre-admitted. And, again, is this an Apply Update log?

11 A That is correct.

12 Q Okay. And I'm going to show you a demonstrative  
13 that you helped create for this Apply Update log, which is  
14 demonstrative 408.

15 Now, and can you tell the Court, please, what this  
16 Apply Update log indicates to you about client Spherion.

17 A Yes. This Apply Update log, HCM200049, for Spherion  
18 Group again, and it's for the QA environment. It failed to  
19 build and it failed to apply HCM200049 for this same reason.

20 Q Okay. So what do these documents indicate to you about  
21 the testing up until this point, which would be January 25th,  
22 2019, for Spherion, as to update HCM200049?

23 A That the QA engineer, because it failed twice, they had  
24 to go apply it manually.

25 Q Is it common for the Apply tool to fail to run like this?

1       A     No, it's not common. It's either an environment issue or  
2     an issue with our package.

3       Q     Now. You mentioned that the engineer would have -- would  
4     have had to go in manually. How do you know that the engineer  
5     would have gone in manually?

6       A     Well, we have to test it and, like we talked about  
7     earlier, if they can't run this for some reason, they are  
8     going to go in and manually apply it, manually test it.

9                 And there's not a log like we talked about. We  
10    don't have our nice log to tell us what happened, but they  
11    have to apply it manually so that we can go ahead and get it  
12    tested and then get it to the client.

13      Q     Let's take a look at the next exhibit, Exhibit 200, which  
14    was pre-admitted. Now, what is this document, Ms. Davenport?

15      A     This is the Spira test plan for OREX 19P02 bundle for  
16    Matheson Trucking.

17                 It passed. It was for release RS-19P02, Savithri,  
18    or Savi as we call her, is the one that tested it, and the  
19    test set, as you can see, is RS-19P02\_bundle\_MAT, which is  
20    Matheson Trucking, and you can see it was run on 4/4 of 2019.

21      Q     And can you just remind the Court, please, what a bundle  
22    test is.

23      A     Sure. So a bundle test is a group of individual updates  
24    that are packaged together, merged code, everything is  
25    packaged together for the client to pick it up with their

1 documentation.

2 My team is responsible for applying the bundle to  
3 our QA environment, running everything for applying, you know,  
4 all the objects to the environment, and then we go in and  
5 basically retest everything to make sure it's working  
6 together, and then we also review the documentation.

7 Q And how can you tell that this bundle passes for Matheson  
8 Trucking?

9 A It's the three-digit MAT alpha code up top.

10 Q Was rsi940a.sqr part of this bundle test for Matheson  
11 Trucking?

12 A Yes.

13 Q And can you just remind the Court again, please, why this  
14 update would have been part of a bundle test.

15 A Because even though we give a client individual updates,  
16 they still get all the individual updates packaged together in  
17 a bundle. It's up to the client as to which ones, or both, if  
18 they can apply.

19 Typically, an individual update, we're trying to get  
20 it out to them by a certain date due to a tax and regulatory  
21 deadline, whereas a bundle is a set date that we give  
22 everybody a bundle.

23 Q You mentioned before that this was an informal update to  
24 Matheson Trucking. Ultimately how many tests are done of an  
25 informal update?

1       A     So an informal update -- well, actually, we test it three  
2     times. It will be tested as a unit test by Dev, then it will  
3     be tested as an individual update, and then it will be tested  
4     as a bundle.

5               All of this goes on in the client's specific  
6     environment, so in a sense that update for that piece of  
7     development is tested three times.

8       Q     Let's take a look, please, at Exhibit 400 which is  
9     pre-admitted. And what is this document that I'm showing you  
10    now, Ms. Davenport?

11    A     This is a Spira test plan for RS-19P02 bundle for client  
12    Smead, which Smead's three-digit alpha code is SME.

13               It was for scheduled release RS-19P02. Morarji, who  
14    is one of my testers in India, tested it, and the status is  
15    completed and it passed, as you can see the green right there.  
16    It also was tested on 4/4 of 2019.

17    Q     Was rsi940a.sqr part of this bundle test for Smead?

18    A     Yes.

19    Q     So what, if anything, does this document indicate to you  
20    about the bundle RSI-19P02, including rsi940a.sqr in terms of  
21    whether it was tested for Smead?

22    A     It was tested as part of their bundle test.

23               MS. SAMPLIN: Thank you. No further questions  
24    on direct examination.

25               THE COURT: All right. Cross-examination.

1 MS. SMITH: Your Honor, would this be an okay  
2 time to take our morning break so that I can streamline the  
3 cross-examination?

4 THE COURT: All right. No, that's acceptable.  
5 And let's go ahead, and we'll take a morning  
6 break, reconvene at between 10:30 and 10:35.

7 MS. SAMPLIN: Would the court like Ms. Davenport  
8 to stay logged in?

9 THE COURT: What's the easiest, Katie?

10 THE CLERK: Yes.

11 THE COURT: Yes. Let's leave you logged in, but  
12 you're welcome to take a break as well. Thank you.

13 THE WITNESS: Okay. Thank you.

14 (A recess was taken.)

15 THE COURT: Have a seat, please.

16 The record will show we are reconvened following  
17 our morning break, and examination of Ms. Davenport continues.

18 MS. SMITH: The cross-examination, your Honor.

19 THE COURT: Oh, and we are at cross-examination,  
20 excuse me.

21 CROSS-EXAMINATION

22 BY MS. SMITH:

23 Q Ms. Davenport, you are currently employed as  
24 Vice-President of Global Quality Assurance, correct?

25 A Yes. My actual title is Global Vice-President of Quality

1     **Assurance.**

2       Q     And you oversee Rimini's quality assurance efforts for  
3     the SAP, JD Edwards, PeopleSoft, and EBS product lines,  
4     correct?

5       A     Yes, that is correct.

6       Q     And you do not personally test PeopleSoft updates as part  
7     of your current position, true?

8       A     I don't today, no.

9       Q     Before you were a vice-president, you were a Director,  
10    Senior Director, and Senior Manager of quality assurance at  
11    Rimini, right?

12      A     That is correct.

13      Q     And you did not test updates in any those roles -- and by  
14    "those roles," I mean a director, senior director, and senior  
15    manager of QA, correct?

16      A     As a manager and as a senior manager, during year-end  
17    sometimes I would go in to help but not a ton, no.

18      Q     In those roles you did not do any testing yourself,  
19    correct?

20      A     As I stated, as a manager and senior manager, during  
21    year-end sometimes I did help out.

22                   THE CLERK:   May I interrupt?

23                               (Discussion held off the record.)

24                   THE COURT:   All right.   Go ahead, please.

1 BY MS. SMITH:

2 Q The last position you held in which you actually  
3 conducted testing was when you were a QA engineer, correct?

4 A No. As I stated earlier, as a manager and senior manager  
5 there were times that I helped out the team.

6 MS. SMITH: I'd like to read, your Honor, from  
7 Ms. Davenport's deposition, page 23, lines 24 through page 24,  
8 line 1.

9 THE COURT: Go ahead.

10 MS. SMITH: "QUESTION: When was the last  
11 position that you held where you conducted tests?

12 "ANSWER: The QA engineer."

13 And I'd also, your Honor, like to read from her  
14 deposition, page 23, lines 17 through 23.

15 THE COURT: Go ahead.

16 MS. SMITH: "QUESTION: No, do you not.

17 "Did you test when you were a director or a  
18 senior director?

19 "ANSWER: No.

20 "When you were a senior manager did you  
21 conduct tests?

22 "ANSWER: No."

23 BY MS. SMITH:

24 Q And when you were a QA engineer at Rimini, that was back  
25 in October of 2008, correct?



1       A     That is correct.

2       Q     It's been well over a decade since you tested any updates  
3     for Rimini, right?

4       A     It has been a while, yes.

5       Q     Instead of testing updates or supervising the testing of  
6     updates, your current work is with the budget, the staffing,  
7     making sure that Rimini's policies and procedures are in  
8     place, right?

9       A     That is correct.

10      Q     You have day-to-day managers that are in the trenches  
11     supervising the day-to-day issues, right?

12      A     That is correct.

13      Q     And so you're not personally involved in reviewing  
14     someone else's testing work, right?

15      A     No, I do not review it.

16      Q     I'm sorry. Would you repeat your answer?

17      A     I do not review their test plans right now.

18      Q     The Apply Update logs that you testified to earlier, you  
19     don't review those contemporaneously, correct?

20      A     No.

21      Q     And so when was the first time that you saw an Apply  
22     Update log? Was it in preparation for your testimony?

23      A     No. I helped create that tool, so I'm very familiar with  
24     what that tool does. I was part of the requirements, part of  
25     creating the reports, for example.

1 Q When was last time you saw an actual log report from an  
2 Apply Update?

3 A I couldn't tell you exact time. There's times when they  
4 have issues with the Apply log, that they'll call me and I'll  
5 go look at them. I can't remember the last time. I would say  
6 within a year or two. But, I was -- while I was at testing  
7 (unintelligible).

8 Q I'm sorry. Could you repeat your answer, please. I  
9 think both myself and madam reporter couldn't hear it.

10 A Okay. Is it not loud enough?

11 Q I think it's loud enough, maybe you were getting a little  
12 soft at the end.

13 A Oh, okay. I apologize.

14 While I don't test, I do occasionally get called in  
15 to help look at an Apply log. It's been a while, maybe a year  
16 or so, since I looked at one.

17 But if there is an issue with it, my manager  
18 sometimes will call me in and say, "Can you look at this Apply  
19 log with me and see why it's failing," for example.

20 Q So it's been approximately eight years since you looked  
21 at an Apply Update log in order to assist somebody else on  
22 your team, correct?

23 A No, that's not true.

24 Like I was just saying, I would say it was last  
25 year, or possibly the year before, that I got called in by one

1 of the managers and asked to look at an Apply log.

2 Q And you were not personally involved in looking at the  
3 Apply logs that you testified to this morning  
4 contemporaneously as they were happening, true?

5 A I was not the tester on those.

6 Q And you didn't receive or review the Apply Update log  
7 reports as they were occurring for the documents you testified  
8 to this morning, right?

9 A Again, I wasn't the tester on them, no.

10 Q And you didn't have -- you didn't review those logs  
11 before preparing for your testimony, correct?

12 A No.

13 Q No, meaning you did receive the logs?

14 A I received logs as part of the evidence, yes, and I did  
15 review them for the client case.

16 Q Which client case?

17 A For this Oracle lawsuit.

18 Q Okay. So is it true that the first time you reviewed the  
19 Apply Update logs that you testified about this morning were  
20 in connection with this proceeding?

21 A That is correct. But I am aware of this client case.

22 I was involved in them when they occurred back in  
23 2019. So there's a good chance I did look at them and I just  
24 don't remember.

25 Q Ms. Davenport, you do not really consider yourself to be

1 technically knowledgeable about PeopleSoft, correct?

2 A I'm not a developer, no.

3 Q And so you're not really technically knowledgeable about  
4 PeopleSoft, right?

5 A Again, I'm not a developer, I'm a tester. Our duty is  
6 functional knowledge.

7 Q So is your answer yes?

8 A I'm not a developer.

9 Q So, yes, you do not consider yourself to be technically  
10 knowledgeable about PeopleSoft, right?

11 A It depends on what you're actually asking me. Are you  
12 asking me if I can write code, or are you asking me if I can  
13 read code?

14 MS. SMITH: I'd like to read from  
15 Ms. Davenport's deposition, page 14, line 15 through 18.

16 MS. SAMPLIN: I don't think it's proper  
17 impeachment, if that's the attempt, if she doesn't understand  
18 the question.

19 MS. SMITH: Well, I've asked it several times,  
20 your Honor.

21 THE COURT: Well, it's awkward with visual  
22 testimony and -- which the Court approves and understands, and  
23 we do that regularly, but it tends to create a problem when  
24 we're dealing with issues relative to prior testimony and  
25 prior activities.

1 I'll allow you to go ahead and proceed in this  
2 manner. I haven't seen any violation of the practice.

3 BY MR. SMITH:

4 Q "QUESTION: Do you consider yourself  
5 technically knowledgeable regarding PeopleSoft?

6 "ANSWER: Not really. I'm not a developer."

7 And, in fact, you've never --

8 MS. SAMPLIN: That is her answer. I would renew  
9 my objection that it's not proper impeachment, just for the  
10 record.

11 THE COURT: The objection is noted, and I also  
12 didn't see any impeachment there.

13 MS. SMITH: The impeachment was when she said  
14 "not really," your Honor.

15 THE COURT: I understand.

16 BY MR. SMITH:

17 Q You have never logged into a Windstream environment,  
18 correct?

19 A I have, actually, It's just been a while.

20 Q I'm sorry, you dropped off and we couldn't hear you.

21 A I have logged into a Windstream environment, but it's  
22 been years ago.

23 MS. SMITH: I would like to read from  
24 Ms. Davenport's deposition, page 176, lines 22, through 177,  
25 line 4.

1 THE COURT: Go ahead.

2 MS. SMITH: "QUESTION: Are environments  
3 stored on Windstream easier to access than  
4 environments, typically speaking, that are not stored  
5 on Windstream?

6 "ANSWER: I haven't gotten into those  
7 environments in -- or I don't think I ever logged  
8 into Windstream so I can't speak to that  
9 particularly."

10 BY MS. SMITH:

11 Q So to recap, you don't test anymore and haven't done so  
12 in decade, true?

13 A I have not tested in quite some time.

14 Q Could you repeat your answer to the prior question,  
15 please? Madam court reporter could not hear you.

16 A I have not tested in --

17 Q She still can't hear you.

18 A I have my volume turned down.

19 MS. SMITH: Should I ask the question again?

20 THE WITNESS: I have not tested in some time.

21 BY MS. SMITH:

22 Q And that's about a decade, true?

23 A I can't remember the last time. It's been quite some  
24 time.

25 Q That would have been when you were a QA engineer in 2008,

1 right?

2 A Yes, as far as full testing, or a manager.

3 Q And your managers test or work with that piece of testing  
4 more, correct?

5 A That's correct.

6 Q And you can't tell us the details, the day-to-day  
7 details, of QA such as whether the PeopleSoft QA team still  
8 uses QA groups, right?

9 A To my knowledge, we don't use QA groups today.

10 MS. SMITH: I'd like to read from  
11 Ms. Davenport's deposition, page 129, lines 18, through 130,  
12 line 8.

13 MS. SAMPLIN: I would object that it's not  
14 proper impeachment because her answer was about today. This  
15 deposition took place more than a year ago.

16 THE COURT: I'll allow it with the understanding  
17 that this is being presented as part of a question.

18 MS. SMITH: "QUESTION: I understand if you  
19 might not be able to -- to tell me the day-to-day of  
20 a particular fix, but I'm asking just as a matter of  
21 practice. Does the PeopleSoft QA team still use QA  
22 groups today, in general?

23 "ANSWER: Again, I -- I don't -- I am not  
24 that level of -- or not at that level right now. I'm  
25 a lot more -- work at a higher level. Sorry.

1 THE WITNESS: And I do have a point of  
2 clarification --

3 MS. SMITH: There's no question pending.  
4 There's no question pending.

5 MS. SAMPLIN: Well, I would object then, because  
6 it wasn't part of a question, it was impeachment.

7 THE COURT: I'll allow her to clarify as a  
8 result of the reading of that deposition portion, and you may  
9 ask that question, Ms. Smith.

10 BY MR. SMITH:

11 Q Is there something after me reading your deposition  
12 testimony that you need to clarify?

13 A Yes, there is. QA grouping is a development tool that  
14 they used to use. We don't use it. We test no matter what.

15 A QA grouping is a QA grouping that you would have  
16 to really talk to Jim about.

17 We have to test every single client in every single  
18 client's environment no matter what, and, as I testified to  
19 earlier, in some cases we test them twice.

20 Q So you do or don't know the details of the QA groups?

21 A I don't know a lot about it. It's really a Dev thing  
22 that they use -- or used to use.

23 Q And when you say Jim would know, are you referring to Jim  
24 Benge?

25 A That is correct, the developer.



1 Q If we could turn to Exhibit 19 in your binder, please.

2 A Okay.

3 Q You received this e-mail from Jim Benge on November 13th,  
4 2019, correct?

5 A I'm sorry, 19? Mine is a --

6 Q Oh, it's 18.

7 A Oh, 18 is our test plan for me.

8 Q DTX Exhibit 19?

9 A There we go. You have tabs numbered, and so that's what  
10 I was assuming you were referring to.

11 Q I was, but there are Oracle numbers and Rimini numbers  
12 that might overlap.

13 A Okay.

14 Q So the Oracle numbers are OREX, and Rimini's numbers are  
15 DTX.

16 A Okay. They don't correspond with their tabs here.

17 Okay. So this --

18 Q So let me ask the question again because I got the date  
19 wrong.

20 You received this e-mail from Jim Benge on  
21 November 13th, 2018, regarding the PeopleSoft injunction  
22 compliance notice, correct?

23 A That is correct. I'm in the "to" or cc.

24 Q And the only changes made to PeopleSoft services by  
25 Rimini, according to this e-mail, are to stop using Code

1 Analyzer and DevReview tools, true?

2 A That's correct.

3 Q There were no changes referenced as it relates to  
4 testing, correct?

5 A That's correct.

6 Q You testified on your direct that the Apply Update logs  
7 show that testing was done in a customer's environment. Do  
8 you recall that?

9 A Yes.

10 Q But the Apply Update tool only shows that the file is  
11 placed in the custom's development or QA environment, and then  
12 the testing is done remotely by QA engineers. Isn't that  
13 true?

14 A Yes. We go in and VPN into a client's specific  
15 environment and test it.

16 Q And so the Apply Update logs only show that the file was  
17 updated to the QA environment, right?

18 A And it shows which client and what was applied.

19 Q And to get any more information about the actual QA  
20 testing, you would have to look outside of that Apply Update  
21 log, correct?

22 A You would need to look in Spira, yes, or the environment  
23 spreadsheet.

24 Q You also testified this morning about unit testing. Do  
25 you recall that?

1 A Yes.

2 Q And you don't personally know if unit testing took place  
3 for any of the matters that you discussed this morning, is  
4 that true?

5 A I don't personally know, but it is our process.

6 Q And you also didn't identify any documents in your  
7 testimony this morning that show unit testing, correct?

8 A No. You would need to talk with a developer about that.

9 Q And who would be the best person to talk to? Would that  
10 be Jim Bengé?

11 A Correct.

12 Q If there were any records of unit testing, Rimini would  
13 have provided them in this proceeding, correct?

14 MS. SAMPLIN: Objection, lacks foundation.

15 THE COURT: Sustained.

16 BY MS. SMITH:

17 Q You have also testified that Rimini uses Spira, or Spira  
18 as I've been calling it in my head, to record and track the  
19 results of its QA testing processes for its PeopleSoft  
20 software updates, correct?

21 A As I stated this morning or earlier, it's a step-by-step  
22 list of tests that they do, that they record the test cases,  
23 pass or fail.

24 Q So does it or does it not record and track the results of  
25 the QA testing process?

1 A It records the pass or fail of each of the tests.

2 Q But it doesn't, for example, indicate what tests were  
3 done individually and what the results are, is that true?

4 A If you looked at some of the second pages that were  
5 noted, it tells you what each case is, and you can drill in  
6 and tell what is tested for that case.

7 Q And that's not consistently kept in the Spira record,  
8 right?

9 A No. That's a process, is to list the test cases and what  
10 each test case is.

11 Q Do you think there are some Spira records that don't have  
12 that level of detail?

13 A There could be maybe a minor change that's kind of  
14 intuitive.

15 Q If you could look at DTX-200, please. And these are  
16 screenshots from a Spira record for Matheson Trucking,  
17 correct?

18 A Uh-huh.

19 Q Yes, this is a bundle test claim, and you contend that  
20 this Spira record shows that Rimini tested its bundle for  
21 Matheson Trucking, and based on the other e-mails, that was  
22 after the informal delivery, correct?

23 A That is correct.

24 Q And the execution date for this test is April 4th, 2019,  
25 correct?

1       A     That is correct.

2       Q     And that's over two months after Rimini informally  
3 delivered HCM200049 to Matheson Trucking in January of 2019.  
4 Is that true?

5       A     Yes.

6       Q     Is it also true that HCM200049 is not mentioned in any of  
7 the five pages of the Spira screenshots that are in DTX-200?

8       A     That is true. And, if you don't mind, I'll clarify.

9               The bundle test is a list of individual updates, and  
10 we have documentation that goes to each client that has a list  
11 of what that client is getting, the objects, the update IDs.

12              And so we don't specify in a bundle test by naming  
13 each of the test cases. We look at the object list in the  
14 documentation for every specific client.

15       Q     So, in that case, we wouldn't see a Spira entry for  
16 HCM200049, is that true?

17       A     No, you would have a step to review all the objects.

18       Q     And the objects would be in individual Spira records?

19       A     They're the individual Spira tests as well as the list of  
20 the test -- I mean, the list of the objects, sorry, by HCM  
21 number in the client-specific documentation.

22       Q     And if you look at this Spira record, under Estimated  
23 Duration, there's nothing under hours, and the actual duration  
24 of this testing took zero hours. Do you see that?

25       A     Yes.

1 Q And there are quite a lot of steps that need to be taken  
2 that are identified in DTX-200 all the way up to -- from 1 to  
3 21, correct?

4 A Yes.

5 Q If you could turn to DTX-400, please.

6 Do you recognize this as a Spira record for Smead  
7 getting the rsil9p02 bundle, correct?

8 A That is correct.

9 Q And the execution date for this test in the Spira record  
10 is April 4th, 2019, correct?

11 A Yes.

12 Q And, again, that's two months after Rimini informally  
13 delivered that update to Matheson Trucking -- excuse me, to  
14 Smead in January of 2019, correct?

15 A That is correct. This is a bundle test so, again, an  
16 informal delivery is giving them an object. An individual  
17 update -- I mean, a bundle test is a group of individual  
18 updates so it is going to (unintelligible).

19 Q And there are no Spira records showing that Rimini tested  
20 HCM200049 in Smead's client environment before the informal  
21 testing -- before the informal delivery was delivered.

22 A Can you state that again, please?

23 Q Sure.

24 A I'm not following your question.

25 Q You did not identify a Spira record showing that Rimini

1 tested HCM200049 in Smead's client environment before  
2 delivering the informal update in January 2019, correct?

3 A No. You have this sales case that stated that we gave  
4 them the informal update. Jim stated that. We did test it as  
5 an individual update for a formal individual update, and we  
6 tested it again as a bundle.

7 Q So my question, though, was with reference to informal  
8 delivery.

9 A Okay.

10 Q So putting aside formal delivery, you did not identify a  
11 Spira record showing that Rimini tested HCM200049 in Smead's  
12 client environment before delivering the informal update in  
13 January of 2019, true?

14 A That's not our process.

15 Q My question, though, is whether you identified any Spira  
16 record showing that Rimini tested that update in Smead's  
17 client environment before informally delivering the update to  
18 Smead in January of 2019, correct?

19 A QA does not test the informal update. We test a formal  
20 individual. So we would not have tested the informal delivery  
21 within unit testing.

22 Q And you also didn't provide any documentation showing  
23 that Rimini tested the update in Smead's client environment  
24 before the informal delivery, right?

25 A You would have to talk to Jim.

1 Q And is that Jim Benge?

2 A That is correct, sorry.

3 Q But, again, the Spira records are QA records that are  
4 part of your departmental responsibilities, right?

5 A Yes, and we do individual tests and bundles.

6 Q And in this instance --

7 A Formal.

8 Q -- you can't identify a Spira record showing that Rimini  
9 tested the update in Smead's client environment before the  
10 informal delivery, correct?

11 A No. QA does not test an informal delivery, so we would  
12 not have a Spira record.

13 Q So it's true that you don't have a Spira record, right?

14 A We have it for an individual and a bundle.

15 Q I would like you to answer my question because I think  
16 it's a simple -- I think it's a simple one.

17 You cannot identify a Spira record showing that  
18 Rimini tested the update in Smead's environment before  
19 delivering the informal update in January of 2019, correct?

20 A QA will not have a Spira test plan for an informal  
21 delivery.

22 Q So your answer is yes, you did not identify a Spira  
23 record.

24 A That is correct.

25 Q And we talked a little bit about this, and you testified



1 to it on your direct, but Rimini's quality assurance engineers  
2 tests Rimini's updates in its customer's software environments  
3 by remotely connecting to each environment to ensure that the  
4 updates function correctly, right?

5 A That is correct.

6 Q And you agree that there are at least two requirements to  
7 Rimini's QA processes, one, a QA engineer remotely connects to  
8 a customer's environment, and, two, ensures that the updates  
9 function correctly, right?

10 A That's correct.

11 Q You stated in your direct examination that Rimini unit  
12 tested the HCM200049 update for Spherion, Smead, and Matheson  
13 in each customer's environment before delivering the update to  
14 those customers in January of 2019, correct?

15 A Can you repeat that? I think I'm getting caught in your  
16 terminology. I'm sorry. Because you called it a unit test.

17 Q Yes. This question relates only to unit testing which  
18 you testified about this morning.

19 You stated in your direct examination that Rimini  
20 unit tested the HCM200049 update for Spherion, Smead, and  
21 Matheson in each customer's environment before delivering the  
22 update to those customers in January of 2019, correct?

23 A That --

24 MS. SAMPLIN: Objection, that misstates the  
25 direct testimony.

1 THE COURT: Well, she asked if that was correct.

2 MS. SMITH: I think the witness said yes.

3 THE WITNESS: I actually said "that."

4 MS. SMITH: Oh, excuse me.

5 THE WITNESS: That's okay.

6 Would you like me to go ahead?

7 MS. SMITH: I think there's an objection --  
8 there's an objection pending for the judge, I think.

9 THE COURT: Rephrase the question and let's go  
10 back to it.

11 MS. SMITH: Sure.

12 BY MS. SMITH:

13 Q This morning you talked about unit testing being done by  
14 the development engineers, correct?

15 A That is correct.

16 Q But in your testimony this morning about unit testing,  
17 you did not identify who unit tested this HCM200049 update for  
18 Matheson Trucking, right?

19 A You have to talk with Jim Benge about (unintelligible)  
20 the Dev group.

21 Q Would the same be true for Spherion?

22 A Yes.

23 Q And would the same be true for Smead?

24 A Yes.

25 Q You also did not identify when the unit testing took

1 place, right?

2 A No. You would need to talk with Jim Benge.

3 Q And, likewise, you didn't testify about the length of  
4 time for the unit testing, correct?

5 A No. Again, you would need talk with Jim Benge.

6 Q Okay. Please take a look at OREX\_81.

7 Are you with me?

8 A Yes.

9 Q You received this e-mail in OREX\_81, correct?

10 A Yes, ma'am.

11 Q There's a comment section, it says,

12 "Hi, Maureen, an informal update, HCM200049,  
13 is now available to address this case. You can pick  
14 up the changes from the following folder in your  
15 development machine," and then it identifies the  
16 development machine.

17 Do you see that?

18 A Yes.

19 Q And if we look at Exhibit 402, it is the Apply Update log  
20 for the Smead matter; DTX-402, excuse me.

21 A Okay.

22 Q Do you know what computer language the Apply Update is  
23 written in?

24 A No, ma'am, I do not.

25 Q And what the date in this Apply Update log that

1 HCM200049 was applied -- or, excuse me, was delivered to  
2 Smead?

3 A This is when it was applied, and it was applied on  
4 January 29th of 2019.

5 Q I'm sorry, could you repeat that?

6 A Sure. This report tells when it was applied to the  
7 environment, and it was applied on 1/29 of 2019.

8 Q And that's four days after the informal delivery was made  
9 to Smead, correct?

10 A (Inaudible) formal.

11 Q I think we missed the first part of your answer.

12 Could you state the whole answer again, I'm sorry.

13 A That's okay. I'm sorry it's going in and out.

14 The answer is yes, it was tested and applied after  
15 the informal delivery on this log.

16 Q Can you tell me from looking at this log how long the  
17 Apply Update process took?

18 A Yes. If you go to the very top, it will tell you 11:45  
19 is when it began, and then if you go to the very end, we  
20 can -- it looks like it ran in about a second, it finished  
21 about 11:45 and 44 seconds.

22 Q Okay. So switching gears to Matheson Trucking, DTX-201  
23 was the Apply Update log that you identified for that client,  
24 correct?

25 A Yes.

1 Q And, in this case, can you tell me when the Apply Update  
2 tool updated the HCM200049 file to Matheson Trucking?

3 A HCM200049 was applied on January 29th, 2019, at 9:11 and  
4 42 seconds.

5 Q And that's approximately one day after the informal  
6 delivery to Matheson Trucking, correct?

7 A Yes. I don't have the other date in front of me, but I  
8 believe so.

9 Q Let's look at Exhibit DTX-205, please. And you testified  
10 about this e-mail in your direct examination. Do you recall  
11 that?

12 A Yes.

13 Q And if we go down to the bottom, there's a comment in the  
14 e-mail from Mark Miszewski. Do you see that?

15 A Yes.

16 Q And he works for Matheson Trucking, correct?

17 A That is correct.

18 Q And his comment was, "The files were successfully  
19 retrieved and tested," right?

20 A That is correct.

21 Q And it's possible that what he was referring to is that  
22 Matheson, once they retrieved the update, tested it  
23 successfully.

24 A That's what he's stating, they successfully retrieved it  
25 and tested the update.

1 Q So that would indicate that Rimini didn't test it, right?

2 A Actually, as I've stated before, it was an informal  
3 delivery, and it was unit tested.

4 Q Now, I'd like to talk about the Spherion case you also  
5 testified to this morning. Do you recall that?

6 A Yes.

7 Q If you could turn to OREX\_82, please. And you're copied  
8 on this e-mail, correct?

9 A Yes.

10 Q And if you go down to the comment section, it has the  
11 same information as was provided to Smead and Matheson  
12 Trucking but indicating that an informal update, HCM200049, is  
13 now available to address this case, correct?

14 A Yes.

15 Q And so Rimini provided this update to Spherion on  
16 January 25th, 2019, right?

17 A As an informal?

18 Q Correct.

19 I'm sorry. I thought you were asking me a question.  
20 That was your answer.

21 A Oh, no. I was just making a statement. Yes, as an  
22 informal.

23 Q Okay. Thank you.

24 If you could turn to DTX-403 and DTX-404, those are  
25 the two apply update logs relating to Spherion, correct?

1 A Correct.

2 Q And what's the date of this Apply Update log for DTX-403?

3 A The first one is on January 23rd of 2019.

4 Q And you testified on your direct that this particular log  
5 indicated that HCM200049 failed to apply, right?

6 A That is correct.

7 Q And this means that the update failed to apply to the QA  
8 environment, is that true?

9 A That is correct. This log is showing that the package  
10 failed to apply.

11 Q In looking at the log file in DTX-403, do you see any  
12 reference to rsi940a.sqr?

13 A I don't think you've given me enough information on this  
14 one. No, it looks like it stopped -- no, I don't on this one.

15 But you can see in the statement "files not found,"  
16 there's something wrong with their package. So my guess would  
17 be that it didn't even have it in there, it's missing the DMS  
18 (unintelligible) SQR, because it looks like it has the -- oh,  
19 there it is. I'm so sorry. It's in the middle.

20 So it has two GIF files.

21 Q Correct.

22 A Rsi940a.sqr -- oh, on the right, sorry. That one is  
23 missing the SQR in that one.

24 And then if you look at the right, it has the SQR,  
25 but it still doesn't have the DMS. See, here in the bottom it

1 says file not found for HCM200049\_U.dms.

2 Q And that's with respect to a Code After issue, right?

3 A That means that the file is missing from the package in  
4 staging.

5 Q If you could look at DTX-404, please.

6 And in this Apply Update log it has the same issue  
7 in that the delivery was not successful, correct?

8 A It's not that delivery wasn't successful, what this means  
9 is that the Apply log was not successful, it failed to run.

10 So, in this situation, my QA engineer is going to go  
11 back to Dev and say the files are missing from the package,  
12 can you please put them in.

13 But since they have already run the Apply tool  
14 twice, they are not going to run it a third time. They're  
15 going to go in and manually apply it after the developer has  
16 corrected the bundle.

17 Q And what's failed to apply is that the update has failed  
18 to apply to the QA environment, true?

19 A True. But it doesn't mean it won't be tested.

20 Q Right. It would be manually applied and then tested by a  
21 QA engineer remoting in, right?

22 A Correct.

23 Q Could you tell from the logs in 403 and 404 who was the  
24 QA engineer?

25 A Yes, ma'am. If you'll go to the top of it, please, it



1 was one of my QA engineers -- I apologize, I can't say his  
2 first name, but his user ID is E-l-e-f-l-a-b-h-a.

3 Q And did you talk to this person about this Apply Update  
4 log, or about both apply update logs failing?

5 A A manager would not need to be involved in this. What  
6 would happen is my QA engineer would be able to realize what  
7 the problem is. It says right there "problem found."

8 So they, themselves, will go back and talk to the  
9 developer and get it corrected. He cannot release this to go  
10 to a client until he has a successful test. So -- which we  
11 know he did in Spira record (unintelligible) I'm sure. I  
12 don't know personally, but I'd have to go look.

13 But it's our practice that these -- this QA engineer  
14 has to go talk with the developer, get the package corrected,  
15 and have the package (unintelligible) all of our tests before  
16 it can be delivered.

17 Q Except for informal deliveries, right?

18 A Again, we don't test informal deliveries. You'd have to  
19 talk to Jim Benge.

20 Q I'd like to draw your attention to DTX-1004, and I  
21 believe you discussed this on your direct examination this  
22 morning.

23 A Uh-huh, yes.

24 Q And, I'm sorry, tell me again what you call this type of  
25 report?

1       A     Sure. It's an actual Excel spreadsheet. It's called an  
2     environment spreadsheet.

3       Q     And why is it called an environment spreadsheet?

4       A     It's a list of environments that we are testing for a  
5     particular case. In this situation, it's HCM200105, and this  
6     particular one is a list of new clients that come onboard with  
7     Rimini Street.

8       Q     The document itself doesn't indicate that it's related to  
9     testing HCM200105, does it?

10      A     It actually gives you the status of testing.

11                 While it doesn't have the test steps on here, it  
12     does tell you that these files in green have been successfully  
13     tested.

14      Q     But how do you know from this spreadsheet what fix or  
15     update is being tested?

16      A     If you go back to the metadata, it tells you HCM2 -- I  
17     believe it was 200105, so it's the name of the spreadsheet  
18     down there, see HCM200105? And it tells you it's Rimini  
19     clients.

20      Q     The environment spreadsheet doesn't indicate when the  
21     testing would have occurred, does it?

22      A     That would be in Spira.

23                 No, it does not have a date on it. It's telling  
24     that you that it was tested and it's completed. Again, it's a  
25     tool we use to stay organized.

1 Q It also doesn't indicate whether the test plan, if there  
2 was one for an update, was followed, correct?

3 A No. You would need to go to Spira to look at that. But  
4 it does tell you it was followed because it's our -- it's our  
5 process, our procedure is to complete the testing with Spira  
6 test plan and then mark the spreadsheet complete. So it is  
7 part of the process.

8 Q I'm just a little confused because you testified that  
9 Spira was the place to record and track the results of the QA  
10 testing processes, and this is not a Spira record.

11 A Spira, like I said this morning, is a list of tasks or  
12 steps that you go through to test an environment. This tool  
13 is more of a team tool to stay organized.

14 So once they have completed their testing in Spira,  
15 and have completed all their steps, they're going to come  
16 update this spreadsheet. They're also going to put notes on  
17 it.

18 Q And are those notes repeated in Spira?

19 A They can be, yes. It depends on what the issue is.

20 Q If you could turn to OREX\_371, please.

21 And, in the meantime, I just have one follow-up  
22 question on what we were talking about.

23 A Sure.

24 Q Would you expect to see a Spira record for each customer?

25 A For an individual update and for a bundle you would see a

1 Spira test plan.

2 Q Thank you.

3 You recognize OREX\_371 as an e-mail for which you  
4 received a copy, correct?

5 A That is correct.

6 Q And this e-mail --

7 MS. SMITH: I'm sorry. Your Honor, I would move  
8 to admit OREX\_371.

9 MS. SAMPLIN: Objection. This e-mail is about  
10 five years prior to the injunction that's at issue in this  
11 case so we would object on relevance grounds, also on  
12 foundation, she's not on this document.

13 THE COURT: Ms. Smith?

14 MS. SMITH: Your Honor, she just said she  
15 recognized the document and got a copy of it, and that was  
16 established at her deposition. So I could read that  
17 testimony, but I think it's unnecessary.

18 Additionally, the witness has testified that  
19 there have been no changes in testing since the injunction was  
20 issued and therefore a practice or an event in 2015 is  
21 relevant.

22 THE COURT: All right. I'm not going to allow  
23 it at this time. It would have to be -- the objection is  
24 sustained.

25 MS. SMITH: I have no further questions, your

1 Honor.

2 THE COURT: All right. Redirect examination?

3 REDIRECT EXAMINATION

4 BY MS. SAMPLIN:

5 Q Hi, Ms. Davenport.

6 A Hi.

7 Q I just have a few questions for you.

8 A Okay.

9 Q Could you please pull up DTX-200 which you were shown on  
10 cross-examination, and at the top right you were pointed to  
11 the actual duration field. Do you see that?

12 A I do. I'm glad you brought this up. I was going to  
13 mention that earlier.

14 We did have an issue with our tool. As we all know,  
15 you go through the test cases, there's quite a few. Even if  
16 you walk through and click "pass" on every single one, it is  
17 going to take a few seconds.

18 We did get this fixed, I do believe, but, there was  
19 an issue with the time, or duration time there.

20 Q So you mean the identified zero for actual duration would  
21 not have been accurate, an accurate reflection of the time  
22 taken for this test?

23 A No. And honestly, I do not remember why it didn't work,  
24 but I do know for a period of time it was showing zero, even  
25 though we had times to put pass on every single one of the

1 test cases and also in some cases of comment.

2 So we knew there was time that was spent on this  
3 test plan, but for some reason the total is still showing  
4 zero.

5 Q You were asked on your cross-examination about Spira  
6 records for informal deliveries, and you testified that Spira  
7 records do not exist for informal deliveries. Do you recall  
8 that testimony?

9 A Yes.

10 Q Can you explain to the Court why Spira records do not  
11 exist for informal deliveries?

12 A My team doesn't test informal deliveries. That's done by  
13 Jim's team in the Dev environment.

14 Once it gets to QA, and we have the package, that's  
15 when the test plan is in the system for an individual update  
16 or a bundle (unintelligible).

17 Q And that's when you would see a record in Spira; is that  
18 correct?

19 A Correct.

20 Q On your cross-examination you were also asked about your  
21 day-to-day managers who are in the trenches overseeing  
22 testing. Do you recall being asked about that?

23 A Yes.

24 Q Do those managers report to you?

25 A They do.

1 Q How often do you communicate with your managers,  
2 approximately?

3 A It depends on the week. It will be daily, sometimes  
4 multiple times a day. Weekly we have a scheduled meet  
5 one-on-one, but it doesn't mean I don't talk to them. They  
6 e-mail me every single day.

7 Q And does your QA team use the Apply Update tool?

8 A We do.

9 Q Based on your experience and Rimini's QA group, do you  
10 know now to read the Apply Update logs?

11 A I do. I helped create them.

12 Q Does your QA team use environment spreadsheets?

13 A We do, yes.

14 Q And based on your experience in Rimini's QA group, do you  
15 know how to read environment spreadsheets?

16 A Yes.

17 Q Does your QA team use and create Spira test plans?

18 A Yes, we do.

19 Q And based on your experience in Rimini's QA group, do you  
20 know how to read Spira test plans?

21 A Yes, I do.

22 MS. SAMPLIN: Thank you. No further questions.

23 MS. SMITH: I have no further questions, your  
24 Honor.

25 THE COURT: There being no further questions of

1 you, Ms. Davenport, your testimony will be completed at this  
2 time.

3 THE WITNESS: Okay. Thank you, Judge.

4 THE COURT: Thank you.

5 MR. MCCRACKEN: Your Honor, our next witness is  
6 Professor Owen Astrachan.

7 THE COURT: All right.

8 OWEN ASTRACHAN  
9 called as a witness on behalf of the Defendant,  
was sworn and testified as follows:

10 THE CLERK: Thank you.

11 Please state your name for the record.

12 THE WITNESS: My name is Owen Astrachan.

13 THE CLERK: Can you please spell your last name.

14 THE WITNESS: A-s-t-r-a-c-h-a-n.

15 THE CLERK: Thank you.

16 MR. MCCRACKEN: Good morning, Professor.

17 THE WITNESS: Good morning, Mr. McCracken.

18 DIRECT EXAMINATION

19 BY MR. MCCRACKEN:

20 Q Could you please introduce yourself to the Court.

21 A My name is Owen Astrachan. I live in Chapel Hill, North  
22 Carolina. I have a family with two kids. And I am a  
23 Professor at Duke University.

24 Q What are you a professor of, sir?

25 A I'm a professor of computer science.



1 Q And why are you here today?

2 A I'm here to offer my opinions as an expert in computer  
3 science and software, and to respond to Ms. Frederiksen-Cross'  
4 opinions.

5 Q Did you prepare some demonstratives to help assist your  
6 testimony today?

7 A Yes, I did.

8 Q Please tell us, if you would, about your educational  
9 background.

10 A I have a Bachelor of Arts degree in Mathematics that I  
11 earned with some honors. Then I became a high school teacher,  
12 which I was for seven years, and I have a Master of Arts in  
13 teaching.

14 Then I went back to graduate school and got a Master  
15 of Science and a Ph.D. in computer science. Those were all in  
16 Duke; not my undergraduate degree, that was from someplace  
17 else.

18 Q Where is that from, sir?

19 A That was from Dartmouth.

20 Q How long have you been a computer science professor?

21 A I've been a computer science professor for a little more  
22 than 30 years at Duke.

23 Q What classes do you teach?

24 A Over those 30 years I've taught many different classes.  
25 I've taught classes in programming languages, advanced

1 software design, mobile or phone software design, the first  
2 course, computer science 101, data structures and algorithms,  
3 technical and social foundations of the internet; many  
4 courses.

5 Q How many students attend your classes?

6 A At Duke computer science is now a very popular course.  
7 This semester, for example, I have 440 students in my course,  
8 last fall I had 500. Many students take our courses.

9 Q How many students have you taught computer science to  
10 over the course of your career?

11 A I've taught thousands and thousands of students. I did  
12 the calculation two years ago, and I had taught approximately  
13 a quarter of the graduating class at Duke.

14 Q Have you won any awards?

15 A I've won several awards. Some of those have to do with  
16 funding the work I do. So I've won an IBM research award and  
17 an NSF career award, which is the award that people try to get  
18 to fund their research when they start as a professor. Those  
19 were for introducing concepts related to software design in  
20 industry into an academic enterprise.

21 I've won several teaching awards, some at Duke. One  
22 was an international award for outstanding contributions to  
23 computer science education.

24 Q You said one of the awards was for software design in  
25 industry. Can you tell us more about that.

1       A     My NSF career award was an award for introducing  
2     practices from industry into an academic enterprise, and the  
3     IBM career award was a similar award for a different aspect of  
4     software design in industry.

5       Q     So are you knowledgeable about software design practices  
6     in the industry?

7       A     Yes, I am.

8       Q     And that was the subject of your award?

9       A     Yes, that's correct.

10      Q     Have you authored any textbooks?

11      A     I did. I authored a textbook called *A Computer Science*  
12     *Tapestry* that had two editions.

13      Q     And what is that book about?

14      A     That was called *A Computer Science Tapestry: Exploring*  
15     *Computer Science with C++*, so it was a textbook. The language  
16     was C++.

17      Q     And has that textbook been used in any courses?

18      A     When textbooks were in vogue back the late '90s and early  
19     2000s, that was a best selling textbook. It was used  
20     extensively.

21      Q     Was it used by other professors?

22      A     Yes, it was used in 30, 40, 50 different colleges.

23      Q     Do you have any experience, yourself, developing  
24     software?

25      A     I do have experience developing software.

1 Q Can you describe that experience for us, please.

2 A When I first started as a graduate student, another  
3 student and I had an informal software company where we  
4 developed software for neuroscience professors in the medical  
5 center for them to perform experiments with. That included  
6 writing Windows code and logging the events that they saw  
7 their subjects happen to.

8 I also wrote what might have been one of the first  
9 basketball bracket picking programs when we first got delivery  
10 of a Sun work station to allow all the employees and students  
11 at Duke to pick their basketball brackets.

12 Q Like a March Madness type bracket?

13 A Absolutely. Because at that point computers had not had  
14 Windows environments, and, yes, you were allowed to pick your  
15 March bracket, and we tracked who was winning.

16 Q What year was that?

17 A That was in the late '80s, early '90s.

18 Q Do you have a specialty within the field of computer  
19 science?

20 A In many ways I'm a generalist in computer science, but I  
21 work to incorporate both best practices from a pedagogical  
22 standpoint and from an industry standpoint, when those are  
23 relevant, into our courses so that our students can succeed.

24 Q Do you have any expertise in software industry and best  
25 practices?

1       A     Yes. I mentioned that I'd won two awards that funded my  
2 research and understanding into industry best practices.

3       Q     What are some of the things you teach your students about  
4 best practices for development?

5       A     These days, one of the practices we talk about is that  
6 you're likely going to be working on a team, and when you're  
7 working on a team, you have to ensure that your software is  
8 written to conform to standard guidelines and principles and  
9 conventions, since others may be using your work, and that  
10 adhering to these conventions is an important part of your  
11 software. Of course, you want it to be correct, too, but you  
12 want it to be well written as well.

13      Q     When you say well written and adhering to conventions,  
14 what do you mean?

15      A     There are conventions about the names that developers  
16 would use in their programs, both for variables and what we  
17 call functions, or the names of the programs themselves, that  
18 those names should be indicative of what they do, not a  
19 favorite color or character in a movie, for example, but,  
20 rather, germane and relevant to the purpose of the variables,  
21 functions, and programs themselves.

22      Q     Aside from the textbook we talked about, do you have any  
23 publications in the computer science field?

24      A     Yes. I've published extensively, especially in the area  
25 of computer science education. I have more than 20

1 publications in that venue, hundreds of presentations and  
2 workshops that I've that conducted, and that's ongoing.

3 Q Do you teach any online courses?

4 A I'm part of a team of four at Duke that has delivered an  
5 online course for Coursera on Java programming.

6 Q How many students have you taught through your online  
7 Coursera course?

8 A Although I don't know all of the students, over 500,000  
9 students have taken our course, so it's rather extensive and  
10 worldwide.

11 Q What's that course about?

12 A That's a course on introductory programming using  
13 JavaScript, HTML, and then Java which are different languages  
14 that people use to program computers or create Web pages.

15 Q How many computer languages do you know?

16 A I know ten or more languages. I program these days  
17 extensively in C, C++, Java and Python, but over time I've  
18 programmed in many more languages.

19 Q Have you been qualified as an expert before in  
20 litigation?

21 A Yes, I have.

22 Q In what fields have you been qualified as an expert?

23 A In fields related to software, patent and copyright  
24 related to software.

25 Q Are you an expert in reading code?

1 A I would say I am, yes.

2 Q Have you testified before as an expert witness in federal  
3 court?

4 A Yes, I have.

5 Q I want to talk to you about your involvement in this  
6 litigation.

7 When did you first start working on this litigation  
8 between Oracle and Rimini?

9 A I was first retained in late 2017.

10 Q And do you recall as a part of which of the cases between  
11 these parties were you retained at that time?

12 A That was part of Rimini II. I had no involvement in what  
13 I understand is called Rimini I.

14 Q And by that you mean the earlier trial in 2015?

15 A That's correct.

16 Q So this hearing concerns postinjunction proceedings in  
17 what is still called Rimini I although much later.

18 What was your assignment as it concerns this  
19 postinjunction proceeding?

20 A My assignment was to respond to Ms. Frederiksen-Cross'  
21 reports that she had written, and to write about what the  
22 injunction had to say.

23 Q Now, what issues are you here to talk about today?

24 A I know I have a demonstrative about this -- and I can't  
25 see that here.

1 Q Let's see if we can get it up on the screen.

2 We can all see it, Professor, but you haven't seen  
3 any of the slides so far, huh?

4 A Well, I knew you could, but -- I was reasonably confident  
5 I remembered what was in the early slides.

6 Q Do you see it now?

7 A Not yet. Now I do.

8 THE CLERK: You do now?

9 THE WITNESS: Yes.

10 BY MR. McCRACKEN:

11 Q All right. So, Professor, can you tell us -- mine went  
12 away.

13 A Mine did, too.

14 Q Can you tell us what topics you're going to discuss  
15 today?

16 A I grouped them into four areas. Issue one is isolated  
17 PeopleSoft files sent to Rimini by clients.

18 Issue 5 is the rspcmpay COBOL file.

19 Q That's the one with the -- where Ms. Frederiksen-Cross  
20 alleged there was matching code between a Rimini file and an  
21 Oracle file?

22 A Yes. That rspcmpay incorporated protected expression  
23 from an Oracle file PSPTARRY.

24 Q That was her allegation.

25 A That's correct.



1 Q Okay. Please continue.

2 A Issue 9 is the JDE technical specification issue where  
3 Ms. Frederiksen-Cross contends that JDE code has been  
4 incorporated into a Rimini technical document.

5 And then the other issues are related to derivative  
6 works and cross-use, and those are issues 3, 4, 6, and 10.

7 Three is the W2 update for Johnson Controls, 4 is  
8 the rsi940a.sqr update to Smead and Spherion, Issue 6 is 1099  
9 update for Easter Seals, and then Issue 10 is the risqtrtx.sqr  
10 update for Rockefeller Group and Home Shopping Network.

11 Q And I see that you're opining on Issue 9 which relates to  
12 a JD Edwards technical specification.

13 Are you offering any opinions today on Issue 7,  
14 which is the definition of JD Edwards software source code in  
15 the injunction?

16 A I am not. I understand that is a legal matter. I'm not  
17 offering any opinions on that.

18 Q What materials did you review as part of your  
19 investigation in this postinjunction proceeding?

20 A I reviewed all the materials in Ms. Frederiksen-Cross'  
21 report. I reviewed the source code for Rimini's AFW tools,  
22 logs and records from the AFW database, Dev instructions and  
23 technical specifications written by Rimini personnel, e-mails  
24 and other documents concerning development, the Jira database  
25 and the Spira database that are about development and quality

1 assurance.

2 I reviewed deposition testimony. I reviewed the  
3 reports that I had previously written, and I reviewed both  
4 Rimini and Oracle code or software files.

5 Q All right. Let's talk about the first issue which you  
6 have as the isolated PeopleSoft files sent by clients.

7 Ms. Frederiksen-Cross testified at length the first  
8 day of trial about files that were sent to Rimini by clients.  
9 What is the takeaway we should gather from that testimony?

10 A In her testimony I counted that there were four  
11 Salesforce cases consisting of eight attached files. There  
12 were three e-mails sent by clients to Rimini that consists of  
13 11 files.

14 So there were a total of 19 PeopleSoft files sent by  
15 clients as either attachments to e-mail or attachment to a  
16 Salesforce ticket.

17 Q Were there only seven total instances that she testified  
18 about?

19 A That's correct.

20 Q Do you consider those 19 files sent to Rimini by clients  
21 to be isolated?

22 A Yes. I call them isolated because they're not part of  
23 any environment. Any environment from which they came were  
24 the client's environment.

25 Rimini has no environments so these PeopleSoft files

1 are isolated. They can't be executed because Rimini has no  
2 PeopleSoft environments. They can't be run. They can't be  
3 used because they are isolated from the environments from  
4 which they came.

5 Q What did Ms. Frederiksen-Cross claim that Rimini did with  
6 these files?

7 A She claimed that they were open when the e-mail or the  
8 ticket was open.

9 Q And she kept talking about copies. What did you take  
10 away from that?

11 A Well, I understand that when you read an e-mail, the  
12 e-mail is in memory, and that's a copy, but that's what I  
13 understood she was saying.

14 Q All right. In her testimony, Ms. Frederiksen-Cross'  
15 testimony about these files on Rimini systems sent by clients,  
16 she showed a series of side-by-side comparisons. Do you  
17 remember that?

18 A Yes, I do.

19 Q And the side-by-side comparisons, at least as I recall,  
20 showed a great degree of matching between the files. Is that  
21 your recollection?

22 A That is my recollection. I didn't real understand the  
23 purpose of that since it's acknowledged that these are  
24 PeopleSoft files.

25 So, of course, they are PeopleSoft files, meaning

1 that when you compare one that the client sent, for example,  
2 to one that Oracle has, we would expect them to be 100 percent  
3 matching, or perhaps very close if one of them had been  
4 modified in the client environment.

5 So I didn't really understand the purpose of saying  
6 that an Oracle file is an Oracle file because, as I understand  
7 it, it has been conceded that, yes, clients sent these files  
8 to Rimini.

9 Q And you would expect if you compare an Oracle file to  
10 itself it would be a very close match?

11 A I would expect it to be a 100 percent match in most  
12 cases, yes.

13 MR. McCracken: Your Honor, I'm going to move on  
14 to a long module, should we break now?

15 THE COURT: Let's do break, that way we will be  
16 able to reconvene at a little earlier in time. We'll take our  
17 noon recess and reconvene at 1:15.

18 MR. McCracken: Thank you, your Honor.

19 (The noon recess was taken.)

20 --o0o--

1 RENO, NEVADA, FRIDAY, SEPTEMBER 24, 2021, 1:15 P.M.

2 ---o0o---

3  
4 THE COURT: Have a seat, please.

5 The record will show we are reconvened following  
6 the noon recess.

7 And, Mr. McCracken, you're welcome to go forward  
8 with your examination.

9 MR. MCCRACKEN: Thank you, your Honor.

10 BY MR. MCRACKEN

11 Q Welcome back, Professor.

12 A Thank you.

13 Q And we're going to talk some code next, I think.

14 Can you tell us what this Issue 5 is. It's called  
15 rspcmpay.cbl.

16 A Issue 5 is about that file that you named rspcmpay.cbl.  
17 That is a Rimini file, and Ms. Frederiksen-Cross contends that  
18 it contains protected expression of an Oracle file  
19 psptarry.cbl.

20 Q And you call it pstptarry, is it p-s-p-t-a-r-r-y dot  
21 c-b-l?

22 A Yes. I'm not sure if it's pronounced psp tarry or psp t  
23 array.

24 Q Let's go with psptarry for the hearing just so I'm on the  
25 page with you.

1                   Do you agree with Ms. Frederiksen-Cross that  
2                   Rimini's files substantially incorporates protected material  
3                   from Oracle's file?

4           A     No, I disagree.

5                   MR. McCracken: Let's pull up DTX-501, please.

6                   And you can turn to it in you binder if you  
7                   would like, Professor.

8           BY MR. McCracken:

9           Q     Professor, is this the Rimini file, rspcmpay that you  
10           analyzed?

11          A     Yes, this is it.

12                  MR. McCracken: Let's get DTX-502, please.

13          BY MR. McCracken:

14          Q     And, Professor, is DTX-502 the psptarry file that you  
15          analyzed?

16          A     Yes.

17          Q     This is the Oracle file?

18          A     That is correct.

19          Q     Now, Ms. Frederiksen-Cross testified about these files  
20          and she used Oracle exhibit numbers. Do you recall that?

21          A     Yes, I do.

22          Q     So these exhibits are actually on both parties' lists.  
23          They are identical files with the same bates numbers. Is that  
24          your understanding?

25          A     That is my understanding.

1                   MR. McCracken: Let's pull up, Mr. Jay, if you  
2 can, let's pull up DTX-501 and Oracle Exhibit 237,  
3 side-by-side if we could, please.

4 BY MR. McCracken:

5       Q All right. And, Professor, it looks like we're looking  
6 at rspcmpay on both of these documents. Is that your  
7 understanding?

8       A Yes, that's correct.

9       Q Now, these two documents are the same document with the  
10 same bates, but they look different to me.

11      A Yes, they do.

12      Q And why is that?

13      A The Rimini document, DTX-0501, is printed in what we  
14 called a fixed width font where every character takes up the  
15 same amount of space on a line. That's the view that a  
16 programmer would see.

17                   And the Oracle exhibit on the right, which is the  
18 same file, and that's OREX\_0237, that's printed with a  
19 non-fixed width font. As a result, it looks different, for  
20 example, things aren't lined up the same way as we see in the  
21 Rimini exhibit.

22                   MR. McCracken: Let's look at that. Hold on,  
23 Professor. So can we blow up the bottom of DTX-501.

24 BY MR. McCracken:

25      Q Yes, so continue, Professor. What about this is lined up

1 correctly?

2 A So we see many columns lined up. For example, COBOL is a  
3 column-oriented language. Some statements must begin in  
4 specific columns, and we see here that the pic in the middle  
5 of the screen, all the Ps and the rest of it, pic, pic, pic,  
6 going from the top to bottom, those are lined up.

7 We see the value that comes after that on the  
8 right-hand side, all the Vs in value line up, and that's the  
9 view that a programmer would see with this regular occurrence  
10 because it's a fixed-width font.

11 Q And when a programmer is looking at this file on his or  
12 her computer, they're not looking at a .pdf, right?

13 A That's correct. What we see here in the exhibits is the  
14 .pdf, but a programmer would load it as a text file with this  
15 cbl suffix, and they would see it in a text editor or a  
16 programming environment that typically always uses a  
17 fixed-width font.

18 Q And so when they see it, it will look more like DTX-501?

19 A Yes, that's correct. It will look like the Rimini  
20 exhibit.

21 MR. McCRACKEN: Okay. Can we get away from this  
22 zoom?

23 BY MR. McCRACKEN:

24 Q So, Professor, how does that visual issue with the  
25 fixed-width font affect Ms. Frederiksen-Cross' analysis?



1       A     Well, I'll get into the bulk of the analysis but, among  
2 other things, looking at a non fixed-width font might lead you  
3 to view these asterisks that appear in the section titled  
4 Rimini Street Modification Log -- I believe  
5 Ms. Frederiksen-Cross used the phrase "orphan asterisks" as  
6 though they were hanging out there on the line by themselves,  
7 and in fact these aren't orphaned at all.

8               Every one of the asterisks occurs in the last column  
9 of a line as we can see in the Rimini exhibit. The asterisks  
10 are lined up exactly in that last column. That's the view  
11 that a programmer would see.

12               MR. McCracken: And, Mr. Jay, can you just pull  
13 up -- show the Oracle Exhibit 237, let's look at the top half.  
14 BY MR. McCracken:

15       Q     And, Professor, are those the orphan asterisks you're  
16 talking about?

17       A     Yes. In this view they appear almost to occur in some  
18 random location. In fact, each of those asterisks on the  
19 right is in the last column, and we see that in the Rimini  
20 exhibit.

21       Q     So, in other words, they're not really there on this  
22 exhibit. That's not what the real file looks like.

23       A     Well, the asterisks are there, but they don't occur in  
24 these random, orphan locations. They occur with great  
25 regularity in the last column.

1 Q All right. Professor, let's talk about what these files  
2 do, what the Rimini file and what the Oracle do.

3 What is the purpose of the Rimini file?

4 MR. McCracken: And, actually, let's just pull  
5 it up, just 501, please.

6 THE WITNESS: Well, the Rimini file has a  
7 program description at the top that describes what it does,  
8 and we can see that it accumulates YTD -- that's year-to-date,  
9 YTD is a standard abbreviation for year-to-date -- grosses for  
10 common paymasters.

11 And I understand that a common paymaster is when  
12 a business might have two organizations within the business,  
13 both organizations pay an employee, and you have to reconcile  
14 withholdings.

15 So a common paymaster, as I understand it, is  
16 making sure that your taxes are working properly, and as it  
17 says, this augments TARRY -- that's the Oracle file,  
18 PSPTARRY -- by breaking out this common pay in more detail.

19 And then it supplies detail for some states that  
20 aren't included in this CMPTT, and it stores this data in  
21 what's call RSLNK. That is a Rimini-identified part of the  
22 program, we wouldn't see that in the Oracle file.

23 And then part two, it loads confirmed check data  
24 using a previous checks area of this same Rimini storage area,  
25 RSLNK. So it's doing two things, common paymasters and

1 previous checks.

2 BY MR. McCRACKEN:

3 Q Does the Oracle file do anything related to the previous  
4 checks?

5 A No. The Oracle file does not process previous checks,  
6 and because the Rimini file is doing this common paymaster, it  
7 breaks out data in more detail, in finer detail.

8 Q Are these files similar lengths?

9 A No. The Oracle file has many, many, many more lines than  
10 the Rimini file.

11 Q And why is that, Professor?

12 A Because these two files do very different things. We've  
13 just discussed what the Rimini file does, and the Oracle file  
14 does far more, and I believe there's a demonstrative that  
15 explains some of these differences.

16 MR. McCRACKEN: Let's take this exhibit down and  
17 try to go to -- it might be slide 5.

18 BY MR. McCRACKEN:

19 Q Is this the demonstrative you're referring to, Professor?

20 A Yes, this is it.

21 Q This is DDX-510.

22 A And what we see is that, although both programs access  
23 the same database because it's a database on the client's  
24 system storing payment data, that the Oracle file loads  
25 significantly more data.

1           And we see that, if we look at the program, it's  
2 much lengthier because it loads far more material from the  
3 database.

4           The Rimini file loads significantly less data, thus  
5 it's somewhat shorter, or significantly shorter, and it loads  
6 different data, as I mentioned, data from previous checks,  
7 and, because of the common paymaster, it has to take that  
8 year-to-date data and make it finer grained.

9           And I mentioned that the Rimini file uses this RSLNK  
10 area of memory. That's not present in the Oracle file which  
11 uses its own area of memory.

12       Q    Are the files similar only in the sense that they both  
13 are loading data from a particular database?

14       A    They are similar in loading data from the database, and  
15 they're similar in loading Y to date -- year-to-date data.  
16 But that's the extent of their similarities.

17       Q    And is the fact that they are both loading data and  
18 year-to-date data from the same place going to affect whether  
19 the code might be the same in particular places?

20       A    In some places we might expect the code to be the same,  
21 but, as I think we'll be exploring, that doesn't mean that  
22 it's incorporated in protected expression.

23       Q    So, Professor, did you analyze these two files to  
24 determine whether they are substantially similar?

25       A    Yes, I did.

1 Q And what is the proper way to analyze these two files for  
2 substantial similarity?

3 A As I understand it, to determine if there's substantial  
4 similarity in a copyright case, we would conduct analytic  
5 dissection, a process that I didn't conduct, and we'd see are  
6 the matching portions of the two programs being compared, do  
7 they consist of protected expression.

8 That's the first step, conducting analytic  
9 dissection. And if we found that there was no protected  
10 matching expression, we'd see there was no violation, there  
11 was no copyright violation.

12 If there were some matching protections, we would  
13 look to see do they constitute a substantial portion of the  
14 protected work.

15 That's my understanding of the proper way to conduct  
16 a copyright case for protected expression.

17 Q Are those the two steps that you followed?

18 A Yes, they are.

19 Q All right. Let's talk about the analytic dissection  
20 step. How do you determine whether a line of code is  
21 protectible?

22 A Well, there are several steps that we need to do to  
23 determine if it's protected expression.

24 Software, by its nature, is extensive, and an entire  
25 software work such as PeopleSoft would properly be

1 copyrighted.

2           So that doesn't mean that each individual line is  
3 itself created. So we have to look at those lines to see  
4 whether they are in fact protected expression, and I've listed  
5 here some of the unprotected elements that should be filtered  
6 out.

7           For example --

8       Q    Yes, please continue. Can you tell us what unprotected  
9 elements you filtered out.

10      A    Some lines are specific to the programming language. In  
11 this case that would be COBOL, in other languages it might be  
12 different.

13           But the language itself dictates you must use  
14 certain terms that are required by the language. Those would  
15 be filtered out.

16      Q    And so if the language requires you to use certain terms,  
17 are those lines of code creative?

18      A    No, they're not creative because they're required by the  
19 language. You can't do it any other way.

20      Q    All right. Please continue. What other elements did you  
21 filter out?

22      A    Some code is constrained by the function of the software.  
23 For example, we discussed that both of these programs load  
24 information from a database, and because that database is  
25 being accessed via a COBOL program, we'd expect the statements

1 to be the same.

2           You access a database by using particular, required  
3 functions. We sometimes call that an API. And you have no  
4 choice, you must use that particular structure and characters,  
5 but the names would be the same, it's required.

6     Q    Are we going to see some examples of that later?

7     A    Yes, we are.

8     Q    All right. What's the third unprotectible element you  
9 filtered out?

10    A    Some code is constrained by logic or efficiency.

11           For example, continuing with the database, you try  
12 to connect to a database, it's possible that that connection  
13 fails, there's an error. So the logic would dictate you have  
14 to handle that error.

15           And you would expect to see that in programs that  
16 use resources like databases. That code would be unprotected  
17 because it's constrained by the logic of needing to deal with  
18 the database.

19    Q    And you keep using the word "constrained." Can you just  
20 explain for us, you know, what do you mean by the code being  
21 constrained.

22    A    These constraints that dictate a lack of creativity  
23 because you must do things a certain way would be filtered out  
24 as unprotected expression because the expression that we are  
25 looking for in copyright, as I understand it, is protected

1 expression, what would not be constrained, what would be  
2 created.

3 Q Your bullet 4 says "code constrained by standard  
4 programming terms." Can you explain that, please.

5 A Yes. In programming languages some terms would be the  
6 same across two different programs because they're doing the  
7 same thing or similar things. So, again, if it's a standard  
8 programming term, we would filter that out as unprotected and  
9 uncreative.

10 Q And then can you please explain your last constraint on  
11 this slide.

12 A Programmers learn standard development conventions both  
13 when they're in school and on the job. Different programs  
14 have different conventions that programmers must follow.

15 Among those are standard conventions for naming  
16 variables, for example. They must have both a form for the  
17 variable in terms of whether it's upper case or lower case,  
18 and then the naming of those variables would also follow  
19 standard conventions.

20 Q What do you teach your students at Duke regarding  
21 standard conventions for programming?

22 A We teach them that those conventions are very important  
23 to follow. We have our own conventions in class that we model  
24 after industry conventions, And we teach our students part of  
25 your grade will be based on have you followed these



1 conventions correctly, not just does your program work.

2 And we know our students appreciate that because  
3 after they get jobs they come back and say, "Thank you,  
4 Professor Astrachan."

5 Q Can you just give us an example of a convention or how  
6 this is applied?

7 A For example, if you were going to access a database using  
8 a FETCH command, and that would be a word that's, for example,  
9 described in the documentation that tells you what you're  
10 going to do, you would call it FETCH. You wouldn't use  
11 another name for it because that's what the documentation  
12 says.

13 And when programmers are working together -- or even  
14 if a programmer does something and comes back a year later and  
15 they see FETCH, they'll say, "Ah, FETCH. I know what I'm  
16 doing here."

17 You wouldn't call it some name like bowtie. That  
18 doesn't make any sense at all. That wouldn't be following the  
19 convention.

20 Q Now, Ms. Frederiksen-Cross talked about I think what she  
21 called a normalized line matching analysis. Did I get that  
22 right?

23 A Normalized line set count, yes.

24 Q And what is that?

25 A That's the process that she used to compare these two

1 files.

2 Q And how does that process work?

3 A That process works by taking the lines in each file -- so  
4 we have two files here, we're looking to see are they  
5 substantially similar, and, first, you convert them all  
6 to the same case so that we don't have upper and lower case  
7 distinctions.

8 We remove extra white space. So if there are four  
9 spaces, we would just use one. That way, we have what's  
10 called the normalized lines. Some people might call that a  
11 canonical or standard form. But normalized is also a word we  
12 use in computer science.

13 And now we take those lines and we treat them as a  
14 set. That means they're unordered, they're just a collection  
15 of the lines in one program, and we compare those to a  
16 collection of lines in the other program, and then we see how  
17 many lines they have in common.

18 And Ms. Frederiksen-Cross uses -- used that number  
19 of lines in determining that these programs were similar.

20 Q And then you said -- I think you said the word unordered.  
21 Can you just explain what that means about these two sets.

22 A A set in both programming and mathematics has no order to  
23 it. It's a collection.

24 So, for example, if we took a line from the  
25 beginning of the file and a line from the end of the file, in

1 this set they might match, but they don't occur at all in the  
2 same place, and the location of lines in the file would be  
3 important to determine whether, in fact, they are matching.

4 Q And, in your opinion, was Ms. Frederiksen-Cross'  
5 normalized matching lines methodology reliable for determining  
6 substantial similarity?

7 A No, I think it's completely unreliable for determining  
8 substantial similarity.

9 Q And why do you think that, Professor?

10 A It doesn't use analytic dissection, which, as I  
11 understand, is the method that should be used.

12 It doesn't filter out unprotected expression.

13 So in these normalized line counts we'd see program  
14 statements, for example, and that means that it leads to what  
15 I call false matches, that a line in one file might appear to  
16 be similar to a line in the other file but, for many reasons,  
17 that should be filtered out as unprotected expression, and  
18 that methodology does not do that.

19 Q Now, you talked about the different kinds of constrained  
20 code. Can you go through some examples -- let me back up.

21 Did you analyze the files to determine which lines  
22 of code were constrained?

23 A Yes, I did.

24 Q And can you walk us through some of the things that you  
25 found to be constrained?

1       A     Yes.  So I'll go through each of these in just a small  
2     amount of detail.

3               So I mentioned the programming language syntax.  In  
4     this case that's COBOL, and there are many COBOL commands that  
5     every COBOL program would have, and I've listed some of these  
6     here behind Setup, SELECT-SETUP, behind Data, SELECT Data,  
7     ELSE, END-IF, END-PERFORM, EXIT Program, Sequel Error Exit,  
8     and Main Exit.

9               Those are just some examples.  COBOL would have many  
10    other statements like this that are dictated by the specific  
11    syntax of COBOL.  We shouldn't count these.  They should be  
12    constrained and unprotected expression.

13    Q     When you look at the comparison exhibit that  
14    Ms. Frederiksen-Cross showed us earlier in her testimony, the  
15    one that has the Rimini file on one side and the Oracle file  
16    on the other side and purports to show lines matching, are  
17    some of the matching lines these things that you have on slide  
18    DDX-515?

19    A     Yes.  For example, END-IF, most programs have a statement  
20    like if, if this value is positive, perform this action.

21               We might say, "If I think it's going to rain, I  
22    carry an umbrella."  Now, in English, you can just say that.

23               But in COBOL, if you say if, you must say END-IF,  
24    it's required.  So we would expect to see those matches.

25    Q     What's the other -- what's the next constraint that you

1 found?

2 A These are conventional section headers. In a COBOL  
3 program it's required by COBOL that you have divided the  
4 program into what are called divisions.

5 So we see Identification Division, Environment  
6 Division, Program Description, Data Division, Working Storage  
7 Section. We would expect to see these in two different COBOL  
8 programs because the language requires it.

9 Q And, again, on her comparison, on Ms. Frederiksen-Cross'  
10 comparison, are we going to see these on both sides of the  
11 files?

12 A Yes, and they should have been filtered out as  
13 unprotected expression.

14 Q Because these are required and they are not indicative of  
15 copying -- well, let me ask it this way. Are these required  
16 and are they indicative of copying?

17 A They are not indicative of copying. A COBOL program  
18 would have these divisions and they should be filtered out  
19 rather than viewed as an indication copying.

20 Q What's the next category of constraint that you  
21 identified?

22 A These are the asterisks that are used in COBOL to  
23 surround a comment.

24 Comments are there for the programmer to look at so  
25 that they know what certain sections of the program do.

1 They're not required by the language.

2 But, as I mentioned earlier, in COBOL all comments  
3 must begin with an asterisk or a slash in column number 7,  
4 and, by convention, they go across the screen until the end of  
5 the line, and we saw that earlier.

6 So these aren't protected expression. They're not  
7 creative in any way, and they shouldn't be used as matching  
8 between two programs.

9 MR. McCRACKEN: Let's pull up DTX-501 so we can  
10 see an example of this. Maybe just go to the first page of --  
11 or maybe second page of 501.

12 BY MR. McCRACKEN:

13 Q So, Professor, here we have some lines of asterisks. Can  
14 you explain -- well, so are these the asterisks and comments  
15 you're referring to?

16 A Yes. So this is an example of what Ms. Frederiksen-Cross  
17 and many other calls a flower box. It's called a flower box  
18 because it looks as though someone has planted flowers around  
19 the border.

20 And we see that each of the comment lines -- and on  
21 this slide that's all three of the lines that have an  
22 asterisk -- have a slash or a star at the beginning of the  
23 line in column 7, and they have an asterisk at the end of the  
24 line, too, in that last column.

25 And then the flower part of the box, the border,

1 consists of asterisks that go across the line of COBOL.

2 So this is a common convention for comments in COBOL  
3 and, in fact, in other languages. It's not creative. It's  
4 not an indication of copying.

5 Q Now, sure, Professor, but, you know, isn't it suspicious  
6 if the Rimini file and the Oracle file have exactly the same  
7 number asterisks in a line?

8 A No. I mentioned that in COBOL it's a column-oriented  
9 language, so all lines have the same number of characters.

10 Now, some of those might be white space and we might  
11 not see them, but it's very common to see 80 asterisks on a  
12 line in COBOL.

13 Q And, Professor Astrachan, I think Ms. Frederiksen-Cross  
14 said something in her testimony about idiosyncrasies regarding  
15 having some lines start with a slash and asterisks as opposed  
16 to just all asterisks. Do you recall that?

17 A Yes, I recall that.

18 Q Did I characterize what she said correctly?

19 A Yes, I think that's correct, and I don't think that's an  
20 indication of copying at all.

21 Q Why not?

22 A Well, first, as I mentioned, all comments must start with  
23 either a slash or a star. It's very common to see the first  
24 part of a flower box start with a slash star, as we see here.

25 And I think we have an exhibit that shows there's a

1 section of the Rimini file that couldn't possibly appear in  
2 the Oracle file that also uses slash star.

3 Q Let's go to the same exhibit, let's go to page 6.

4 Professor, is there anything on this page that's  
5 relevant to your opinions?

6 A Yes. We can see what's at the bottom of the top page,  
7 and the top of the second page where it says SELECT-PRVCHKS  
8 SECTION.

9 As I mentioned at the beginning of my explanation,  
10 selecting data for previous checks is a function that's in the  
11 Rimini file. It's not at all in the Oracle file, it's missing  
12 this functionality completely, and yet we see the slash star  
13 beginning the flower box because the Rimini programmer has  
14 followed that convention of beginning flower boxes with a  
15 slash star.

16 Again, this is a very common convention.

17 Q So I think you said, Professor, so this section of the  
18 Rimini file, this has functionality that is not even present  
19 in the Oracle file?

20 A It's not present in the Oracle file at all so it could  
21 not have been copied from the Oracle file since it's not  
22 present.

23 Q And, Professor, did you review the various flower boxes  
24 in the Rimini file?

25 A Yes.



1 Q What's the convention with regard to those flower boxes  
2 and whether they start with a slash or an asterisk?

3 A They uniformly start with a slash asterisk.

4 Q On the top line?

5 A On the top line.

6 Q And then what about the bottom line?

7 A The bottom line does not start with a slash star, it's  
8 just a star. That convention is followed throughout the  
9 Rimini file.

10 MR. McCracken: All right. Let's take this  
11 down, Mr. Jay. We'll go back to the slides.

12 BY MR. McCracken:

13 Q All right. Professor, can you tell us about the next  
14 type of constraint that was relevant to your analysis.

15 A I call this functional code. Code that performs a  
16 specific function often needs to look the same across two  
17 files.

18 Earlier I mentioned, if you're going to access a  
19 database, you might have to use the same terminology to access  
20 the database.

21 This shows another example of functional code that's  
22 the same in both files, in fact, in every COBOL program, that  
23 consists of what are called filler commands and pic commands,  
24 and we see these in both files, and the format and syntax of  
25 this command is dictated by the language.

1 Q So this is referring to the lines that say 03 filler, and  
2 they say pic, p-i-c, X, and then a number in parentheses, and  
3 they usually say value all.

4 A Yes. We can see the value all C is on the next line  
5 because this is two files together. So the line would be 03  
6 filler pic X 10 value all C, we see that on both sides.

7 And this slide shows in great detail that each part  
8 of that line, the syntax and order on that line are required.

9 Q Did you rely on any documents to confirm what syntax  
10 needs to be used in these files?

11 A Yes, to understand COBOL is used in Oracle's product, I  
12 used their API document.

13 MR. McCracken: Let's pull up DTX-500, please.

14 BY MR. McCracken:

15 Q Professor, this will be in your binder as well. What is  
16 this document?

17 A We can see at the top this is a PeopleSoft SQL API for  
18 COBOL, and the contents describe what's in it.

19 In general, this is a document that a programmer  
20 would look at to understand how to write COBOL in a PeopleSoft  
21 environment.

22 Q Would you expect a skilled developer of PeopleSoft  
23 updates to know the conventions described in this document?

24 A Absolutely.

25 Q And I think you said this describes an API. Can you tell

1 the Court what an API is.

2 A Sure. API standards for Application Programming  
3 Interface, but that doesn't really describe what it does.  
4 It's the form and order in which you must do things to achieve  
5 specific results.

6 I often think about, when I'm sitting at home, I  
7 have three remotes that control my TV because I have a lot of  
8 devices, so I know I must turn on device one, press the red  
9 button, then device two and press the green button.

10 That's essentially the API to turn on the  
11 application which, in my case, is the TV connected to my media  
12 center, and if I don't use that order in that way, it won't  
13 work.

14 So the API there is you must do specific things in  
15 specific orders to achieve the result you're looking for.

16 MR. McCracken: All right. And let's go to page  
17 4, Mr. Jay.

18 BY MR. McCracken:

19 Q What does this document say about the filler code that we  
20 just discussed?

21 A It describes how that filler code works. We can see at  
22 the top it talks about the characters being C and H. That's  
23 in the first line there.

24 Q And that's where we saw the value all C in the slide?

25 A Correct. If you're going to read characters, you must

1 use a C. For example, if you're going to read numbers, you  
2 would use a different designation, not C or H. C or H are  
3 required when you're going to fill with character values from  
4 your database, so that's required.

5 We even see the last line in that top paragraph, it  
6 says "consecutive data elements of the same type." It's the  
7 last sentence. Yes. "Alternate one of two characters  
8 representing the data type."

9 So what that tells us is if we see a C, the letter  
10 C, it's going to be followed by the letter H. That's required  
11 by this API. That ordering is important. One line would have  
12 a C, the next line would have an H, if it's both character  
13 values, dictated by the API.

14 MR. McCRACKEN: And, Mr. Jay, I think -- can we  
15 blow up the middle of the screen where there's some examples.  
16 BY MR. McCRACKEN:

17 Q And, Professor, can you just describe what we're looking  
18 at here.

19 A Well, here we see how the order of that line is  
20 important. We saw earlier that it said pic X 10, and this  
21 tells us that that ordering is required. We must see the pic,  
22 followed by an X, followed by a number in parentheses,  
23 followed by value, followed by all, followed by C.

24 This is an example not -- that uses that API, and  
25 programmers would be cognizant of this example, and they would

1 write code that used these examples in what they did.

2 Q What's the number in parentheses? What's that for?

3 A That's the number of characters that will be read from  
4 the database as part of this filler command.

5 Q So if two programs are reading data from the same  
6 database, would they have the same number?

7 A If they're reading the same data in the same place, both,  
8 for example, the data from January, then you would expect,  
9 well, I have to ignore ten characters for January because I  
10 want to know the date, perhaps.

11 And so you would read the same number of characters  
12 because you're processing the same data. Yes, that's a  
13 reasonable way of looking at it.

14 Q And, in your opinion, Professor, are these filler  
15 statements creative?

16 A No, they are not, and I believe Ms. Frederiksen-Cross  
17 said so in her testimony that they would be constrained.

18 Q Now, how much of the allegedly matching lines on that  
19 side-by-side exhibit that we saw consist of these filler  
20 statements?

21 A Because both of these programs are accessing database,  
22 looking for particular elements in that database, there are  
23 many, many filler commands. There are a lot of filler  
24 commands in both programs, and those should be constrained and  
25 filtered out as unprotected expression.

1 MR. McCracken: Let's take this down, Mr. Jay,  
2 please, and let's get the slide deck back, please.

3 BY MR. McCracken:

4 Q Professor, I think we're on the slide for your next  
5 constraint looking at DDX-519. Can you explain your next  
6 constraint.

7 A Yes. What I've labeled that in my diagram is "Same Code,  
8 Different Function," and the header on this slide indicates  
9 exactly what that means, the structure sequence and  
10 organization constraints.

11 So when you look at this slide it might look like --  
12 and in this example of side-by-side comparison, white means  
13 the same. So we see what looks like, oh, 03 filler pic X 10,  
14 that's line 243 on the left. It matches. 03 filler, pic X  
15 10, that's line 64 on the right.

16 But I think if we go to the next slide that's  
17 related to this, we'll see something that indicates these  
18 aren't at all the same.

19 Q And just for the record, the slide is showing Oracle  
20 Exhibit 175 at page 9, and we're looking at the lines of code  
21 that are 243 to 245 in the Oracle file, and 64 to 65 in the  
22 Rimini file.

23 And so, Professor, you were saying go to the next  
24 slide?

25 A Yes.

1 Q All right.

2 A Remember, this is Same Code, Different Function, and what  
3 we see is -- and now those lines are circled, it might look  
4 like line 243 matches line 64, they are the same characters in  
5 the same order.

6 However, in the Rimini file, this is in a section  
7 for common pay year-to-date, and in the Oracle file it's for a  
8 state tax table of some sort.

9 They're in completely different parts of the  
10 program, so they can't be matching because they're not doing  
11 the same thing.

12 The structure sequence and organization in the Same  
13 Code, Different Function should be taken into account in  
14 determining whether lines of code match, and, in this case,  
15 they don't.

16 Q So if you're just looking at the side-by-side and looking  
17 at the matches, you may think things match when they're  
18 actually doing different things.

19 A Correct. That's part of the false matching that I  
20 mentioned earlier that's going to happen when you do this  
21 normalized line count method.

22 Q How much of the matching in Ms. Frederiksen-Cross'  
23 analysis is accounted for by these constraints, the five  
24 constraints you just talked about?

25 A In my opinion, it's all of it. All of it should be

1 filtered out as unprotected expression. These aren't  
2 substantially similar.

3 Q All right. I want to talk about some of the sections of  
4 the code that Ms. Frederiksen-Cross focused on in her direct  
5 testimony as being allegedly created and protectible, okay?

6 A Okay.

7 Q And I think on your slide you have an example of some of  
8 the code that she testified about?

9 A Yes, I believe it's noted that this is OREX Exhibit 0175,  
10 and this is also included in one of Ms. Frederiksen-Cross'  
11 reports as perhaps the most imminent example of matching and  
12 why these programs must have been -- why the Rimini program  
13 must have been copied from the Oracle program.

14 Because, as we can see, there's a lot white space,  
15 and white space means matching. Purple and tan mean they are  
16 not matching.

17 But this is almost all white space so, in her  
18 analysis, this would be an indication of copying.

19 Q And we're looking at about, what, about 15 lines of  
20 matching code?

21 A Something like that, 15, 17. It's a very small number,  
22 yes.

23 Q How many lines of code are in the Oracle file?

24 A Thousands.

25 Q Professor, can you apply your analytic dissection to this



1 area of code that Ms. Frederiksen-Cross claims is creative?

2 A Yes. We'll go from the beginning to the bottom.

3 We can see at the beginning this is a FETCH-CMPAY  
4 and a FETCH-TAX-BALANCE, they're different parts, so I'm going  
5 to the asterisks.

6 The Oracle file says FETCH-TAX-BALANCE, and the  
7 Rimini file says FETCH-CMPAY. That's just the title of these  
8 sections.

9 I'm not looking at those. I'm looking at the next  
10 lines that are asterisks, and I've already mentioned that  
11 these are not creative, conventional, and we'd filter out  
12 these comments lines as an indication that there was  
13 substantial similarity. They're not protected expression and  
14 they should be filtered out.

15 Q Okay. And we're looking at -- this is Oracle Exhibit  
16 175, page 29, and we're looking at the lines that start at 885  
17 and 886 in the Oracle file.

18 A Yes. And on the Rimini side it's 360, 361. Those should  
19 not be matching lines, they should be filtered out.

20 Q Okay. Let's get rid of those.

21 And then what's the next line, Professor?

22 A The next line says INITIALIZE SELECT-DATA OF S-YTD.

23 And we see that's the same on both sides. So  
24 perhaps at first glance it might seem like, whoa, they're  
25 exactly the same, but in fact they're not the same. They're

1 dictated by convention, requirements of syntax, and the COBOL  
2 API.

3 Q Yeah, at a high level, Professor, what is this code  
4 doing?

5 A Both these programs are going to fetch data from a  
6 database. And this part of the code is initializing that  
7 selection. Initialize is required, Select Data is required.  
8 Because it's a Select, the S is required.

9 The YTD is not dictated by the API, but it's a  
10 standard label for year-to-date so it's not surprising that we  
11 see YTD on both lines because of year-to-date.

12 Q Well, Professor, couldn't the programmer call it  
13 anything? Couldn't we call it Voldemort?

14 A I appreciate your reference to Harry Potter,  
15 Mr. McCracken, but you couldn't actually do that because  
16 in following conventions, as I mentioned earlier, you learn to  
17 use variable names indicative of their purpose.

18 So I would expect that we would use YTD for  
19 year-to-date. That's a standard across programming, finance,  
20 many things use YTD for year-to-date.

21 MR. McCracken: All right. Mr. Jay, can we pull  
22 up DTX-500 again and go to page 3.

23 BY MR. McCracken:

24 Q Professor, is there anything on this page that's relevant  
25 to what you were just explaining about the initialize

1     Select-Data step?

2     A     Yes. We saw that this was a Select Data step at the  
3     bottom of this page, which is, again, Oracle documentation,  
4     that programmers read to determine how to write their  
5     programs.

6             What we see in the second line, the sentence that  
7     begins on the second line, "be sure," it says don't forget,

8             "Be sure to initialize this area before each  
9     FETCH, because character fields are not blank-filled  
10    on all platforms. If you do not clear the buffer, a  
11    short character value might only partially replace a  
12    longer value from a previous FETCH."

13    Q     So what's that saying in English?

14    A     What that says is, if you're a careful COBOL programmer,  
15    you will initialize the area before you call FETCH. So you  
16    must, if you're a careful programmer, initialize before FETCH,  
17    and as we'll see, we're about to do a fetch so we're going to  
18    initialize.

19    Q     All right. And I see at the bottom, bottom of the blow  
20    up, it says Example, and it says SELECT-DATA of S-CHECK?

21    A     Yes. That's the requirement, you have to call  
22    select-data, and the S, as I mentioned, is required from  
23    select.

24    Q     Is that similar to select-data of S\_YTD which we see in  
25    both programs?

1       A     It's exactly the same. As I mentioned, the only change  
2     between this example and the program is, in the program,  
3     because we're using year-to-date data, we use YTD.

4               MR. McCracken: All right. Let's go back to the  
5     demonstratives, please.

6               THE WITNESS: So we'd filter that out --

7               MR. McCracken: Okay.

8               THE WITNESS: -- when we look at the next line.

9     BY MR. McCracken:

10    Q     All right. So we're looking at Oracle Exhibit 175,  
11    page -- oops.

12               All right. We're looking at Oracle Exhibit 175 at  
13    page 29, and we're now analyzing the lines of code that are in  
14    Oracle file 890 to 892.

15               So, Professor, can you apply analytic dissection to  
16    these lines of code, please.

17    A     Yes. We just saw that we were initializing something  
18    before a fetch, so we're about to do the fetch, and we're  
19    calling ptpsqlrt, that's the required API in PeopleSoft to  
20    access the database. We must use "call ptpsqlrt" as part of  
21    accessing the PeopleSoft database.

22               And, because we're doing a fetch, we must say what  
23    the action is because you might access the database to do  
24    something, a store, but we're not, we're using a fetch.

25               So it's required that we see "ACTION-FETCH of

1 SQLRT."

2 And then, if we look at the API, we'll see that  
3 these other lines are also required. So when we see "using  
4 ACTION-FETCH of SQLRT," followed by "SQLRT," followed by  
5 "SQL-CURSOR of S\_YTD," all of that will be dictated by the  
6 API.

7 Q We'll see this in the API document?

8 A Yes.

9 Q Pull up the API document, DTX-500. And I think we want  
10 the bottom of page 1 top of 2.

11 A Right. Where we see Interface.

12 And it says, "API services are provided through  
13 CALLS to the PTPSQLRT program," and that's the one we just  
14 saw, calling it, and we can see here, CALL PTPSQLRT USING, and  
15 our action here is a Fetch, so we're going to see  
16 ACTION-FETCH.

17 And if we look at the bottom below what's  
18 highlighted in that paragraph that's also been expanded, it  
19 says,

20 "The actual list of parameters that are  
21 needed depends on the action requested. For example,  
22 a SELECT statement requires all of the previous  
23 parameters."

24 Those are the values listed in the paragraph  
25 above, those are the parameters.

1                    "...a FETCH action requires only the first  
2                    three."

3                    And the first three are USING action sqlrt and  
4                    cursor. Those are required, and the API explains that.

5            Q     So based on that paragraph at the bottom, if you're doing  
6                    a fetch action, you need to have the fetch action followed by  
7                    the sqlrt followed by cursor?

8            A     That is correct. That what this API is telling you, you  
9                    must have those in that order.

10           Q     All right. Let's go back to the slide, then, and see  
11                    what we see in the code.

12           A     What we see is ACTION-FETCH required, sqlrt required, and  
13                    the cursor, which is where you are in the database,  
14                    essentially, SQL-CURSOR, and then "of," the Select Statement  
15                    YTD. We've seen that before.

16                    All of this is dictated by the API. It's  
17                    functional, it is required, and it should be filtered out as  
18                    unprotected expression.

19           Q     Now, Ms. Frederiksen-Cross testified that -- she  
20                    testified about these lines of code. Do you recall that?

21           A     Yes.

22           Q     And she said that you didn't need to say ACTION-FETCH,  
23                    you could have called it anything, not fetch, you could have  
24                    called it "go get 'em." Do you remember that?

25           A     I do recall "go get 'em" being mentioned, yes.

1 Q What do you think about that?

2 A I think that, as I mentioned before, sometimes syntax  
3 dictates that something is required, and sometimes convention,  
4 in terms of naming actions or variables, is also required.

5 If it's a fetch, we call it fetch, we don't call it  
6 "go get 'em."

7 As I mentioned, in my class, if you named your  
8 variable something creative that way, you would lose points.

9 Q So a student in your class would lose points for naming a  
10 variable something creative?

11 A You want to use creativity in the process of what you're  
12 doing, and that means if it's fetching, you would call it  
13 fetch, you don't call it spoon, you don't call it go get 'em.

14 The names of your variables should be indicative of  
15 their purpose and what convention would say. I'm confident,  
16 if we looked at many COBOL programs, we would see fetch being  
17 used, not "go get 'em."

18 Q What about a professional software developer that works  
19 for a publicly-traded company, would you expect them to follow  
20 conventions?

21 A I would absolutely expect them to follow conventions.

22 Q All right. Let's talk about the next lines of code.

23 All right. So, Professor, can we filter this one  
24 out?

25 A Filtered it out.

1 Q Let's talk about the next one.

2 A We just called the database. We looked at the API and  
3 saw that we were accessing the database, and the reason for  
4 accessing the database is to pull values, to fetch values from  
5 the database.

6 Once we've done that, we have to wait for the  
7 database to give us an answer. We called it, and now we wait  
8 for the result, and when we get the result, we have to write  
9 code to handle that result.

10 And one of the things that could happen is when the  
11 call to the database finishes, the return code -- and because  
12 we call something in programming, we call -- we name what we  
13 get back "the return value," as though I called you up and  
14 then you returned my call.

15 I call the database, I get a return code. An RTNCD,  
16 that's return code. That's just the label for return code.  
17 That's required.

18 And what this says is if, when you access the  
19 database, the call ended, the return code was END, then  
20 perform a certain action.

21 So you would expect that both programmers would have  
22 to handle that the call ended, and we see they both have what  
23 to do if the return code ended.

24 And, in fact, they do the same thing. They first  
25 say the call ended. So they set the value of the variable



1 "FETCH YTD end" -- because we just finished an end -- of that  
2 select statement, that's "S\_YTD," set the value to "true,"  
3 because the call has ended.

4           There's no other choice there. The call has ended,  
5 you must set the value to true.

6 Q Do you think it's creative to write code that says that  
7 the has ended, set the value to say the call has ended?

8 A No, I don't think that's creative, and I think that part  
9 should be filtered out as unprotected expression.

10           The next part is similar in that --

11 Q What are you referring to, Professor, for the next part?

12 A The call ptpsqlrt, we're calling that API again. You're  
13 saying, "Hey, program that accesses the database, please  
14 disconnect from the database."

15           And that's also a convention that all careful  
16 programmers would follow. When you've made a connection to a  
17 database, that's a resource, and you can't have unlimited  
18 connections.

19           So careful programmers make sure they kind of clean  
20 up after themselves. Once you've succeeded in accessing the  
21 database, disconnect from the database.

22           And that's what this says. It says please call that  
23 program, ptpsqlrt, using a disconnect action. That's  
24 the action that you use to disconnect.

25           So this is, again, required by careful programming,

1       disconnect from that program that accesses the database.

2       Q     And specifically, Professor, it shows the call, ptpsqrtrt,  
3     using action disconnect of sqldr, and then it has another two  
4     lines, sqldr and SQL-CURSOR. Are those all required?

5       A     Yes. We just saw earlier that we filtered out the action  
6     FETCH. Now this an action disconnect. And we saw in the API  
7     it's required that you have these three elements: Action  
8     disconnect -- and earlier we had ACTION-FETCH -- and then you  
9     have to have sqldr, and then you have to have SQL-CURSOR.

10            It's exactly the same API that we saw before for a  
11     different action. All of this should be filtered out as  
12     unprotected expression. These are not substantially similar.

13       Q     All right. Let's move on to the next section of code,  
14     and just for the record, I'll say what it is. So we're  
15     looking at Oracle Exhibit 175, at 29, and the lines are, in  
16     the Oracle file, 900 through 909.

17            So, Professor, tell us -- well, first of all, some  
18     of these lines of code are purple; so what does that mean?

19       A     Purple indicates that they don't match, and what we see  
20     is -- on the Oracle side, for example, TAX-BAL. I'm going to  
21     assume that's for tax balance. That's a label that the Oracle  
22     programmer used.

23            On the right-hand side, we see CMPAY. Now, we've  
24     already discussed that this program is doing different payment  
25     calculations. The name of the file is RSPCMPAY.

1           And so we'd expect that some labels are different  
2 because these are different programs. So those parts are the  
3 same, but they're dictated by the functionality of these  
4 programs, and they're not the same, so they're not part of the  
5 matching.

6       Q   All right. Can you apply analytic dissection to these  
7 lines of code, please.

8       A   Yes. The section we looked at earlier was for a return  
9 code that ended, and that means ended properly. We called the  
10 database and we got back a result.

11           Now, the return code here -- and again, return code  
12 is rtncd -- the return code is in error, and that could  
13 happen. You try to access the database and you fail, or it  
14 goes away.

15           All kinds of errors happen in programs, and careful  
16 programmers write code to deal with those errors. We don't  
17 want our program to just crash, we want to log the error so  
18 that we can deal with it.

19           And so we'd expect all careful programmers to have  
20 what do you do if the return code is error, and so we on line  
21 900, if return code error of sqlrt, and we see that on the  
22 right-hand side. This is just the section of code that deals  
23 with errors.

24           And if we look at the body of this "if" statement,  
25 we see that that's similar on both sides.

1 Q And is that code creative, Professor?

2 A No. Again, it's processing the error in the same way.

3 First, it's moving something to the error section,  
4 and we can see that on both sides. I am moving -- it's  
5 different because the programs are different, but that  
6 movement to an error section is expected. That way we can  
7 handle the error.

8 And then when it says, "Perform ZZ000-SQL-ERROR,  
9 that's indicating please perform this other part of the  
10 program. There's another part of the program labeled  
11 ZZ000-SQL-ERROR that's designed to deal with errors.

12 We don't see that here. This says go to that other  
13 part of the program and please handle the error.

14 And in fact now we see the END-IF that I mentioned  
15 earlier is required, and then we see the ELSE which is also  
16 required.

17 Q And, Professor, I think Ms. Frederiksen-Cross testified  
18 that the files had this error code at the end of the files,  
19 and that was indicative of copying because you could put the  
20 error code anywhere in the file. What do you think about  
21 that?

22 A I think that's another example of convention.

23 By convention COBOL programmers put the error  
24 handling at the end, and if it's at the end, it will have that  
25 ZZ000 designation. Because ZZ is the last character of the

1 alphabet, it indicates that this section is coming at the end.  
2 Again, that is a common convention.

3 Q All right. So, Professor, is this code, line 900 to 909,  
4 is that protectible in your opinion?

5 A In my opinion, no. It should be filtered out as  
6 unprotectible.

7 Q All right. And what did you conclude regarding this  
8 passage of the side-by-side exhibit regarding whether these  
9 files are substantially similar?

10 A Using analytic dissection, which I understand is the  
11 proper technique to determine if two files are substantially  
12 similar, it's clear that they are not because they have  
13 literally nothing in common.

14 Q All right. I want to walk through some of the other  
15 sections of the code that Ms. Frederiksen-Cross claimed were  
16 protectible and indicative of Rimini having copied Oracle.

17 MR. McCracken: Let's go to Oracle Exhibit 175,  
18 at page 6, please, and, Mr. Jay, if you could focus in on 139  
19 on the Oracle file.

20 BY MR. McCracken:

21 Q Professor, did you hear Ms. Frederiksen-Cross testify  
22 about this line of code on Monday --

23 A Yes.

24 Q -- might have been Tuesday?

25 Sorry, I talked over you.

1 A Yes. Sorry. Yes.

2 Q What did she say about this?

3 A Well, we see the same line on both sides.

4 And, again, we have already determined that cursor  
5 is a common name for a cursor. So this says SQL-CURSOR, and  
6 then PIC 9999 VALUE ZERO COMP.

7 We'd expect a program that's dealing with the cursor  
8 to use the label cursor. In both cases, its dictated by the  
9 fact that this is going to be a nine -- sorry, a  
10 four-character value. The 9999 means four digits, and we're  
11 setting it to zero.

12 Q Professor, for us non-programmers, what's a cursor?

13 A A cursor is not what we see on the screen. Sometimes  
14 people use the word cursor as where there's a blinking on the  
15 screen.

16 But that's actually not too far away from what's  
17 being said here, because the cursor on the screen is a  
18 location on the screen. When you see the cursor blinking,  
19 it's a location.

20 A cursor in a file or a database is where are you in  
21 that file or database. You might have already read a 100  
22 values, so your cursor in on the hundred and first value.  
23 It's where you are, the same way the cursor on the screen is  
24 where you are.

25 Q I think Ms. Frederiksen-Cross testified that you don't

1 have to call this cursor, you could call it something else.

2 Would you do that?

3 A No. As I mentioned before, again, variable names should  
4 be indicative of their purpose. That's a standard programming  
5 convention. That's what careful programmers would do.

6 Q Will we see that in the API?

7 A Yes, we will. We already saw a cursor in the API, but we  
8 can look again and see it one more time.

9 Q Now, let's look at DTX-500 at page 6. And, Professor, is  
10 there a place on page 6 we should look?

11 A Right in the middle of the page it says SQL-CURSOR, and  
12 it indicates that this is a four-digit computational number  
13 that represents a resource connection unit.

14 So the key there is four digits, that's why we saw  
15 9999, and computational number, that's why we saw c-o-m-p,  
16 that's for computational.

17 So this API is dictating the form of that line.

18 Q Do you think it's surprising, then, that the code written  
19 by Rimini, and the code written by Oracle have the same line?

20 A No. I think that's standard common programming practice  
21 and not an indication of copying.

22 Q All right. Overall -- so, Professor, did you apply  
23 analytic dissection to the entire comparison, Oracle Exhibit  
24 175?

25 A Yes, I did.

1 Q And what was your conclusion after performing analytic  
2 dissection?

3 A That these programs are not substantially similar.

4 Q All right. Let's go back to your demonstratives.

5 And you said earlier that there's a second step to  
6 your analysis. Can you explain what that is.

7 A Yes. First, we conduct analytic dissection, and, as I  
8 mentioned in my opinion, my analytic dissection indicates, as  
9 I think is agreed by others performing this similarly, these  
10 are not substantially similar. They are not matching.

11 But if I had found matching portions, I'd then have  
12 to look to see are these matching portions a substantial  
13 portion of the copyrighted work. Again, it's my understanding  
14 that that's the legal basis for substantial similarity.

15 Q And what is the copyrighted work in this case?

16 A The copyrighted work in this case is all of PeopleSoft,  
17 as I understand it, that's what's copyrighted.

18 Q So what did you determine when you did step number two?

19 A First, I don't think that these matches are substantially  
20 similar, but if they were, clearly they're not a substantial  
21 portion of the copyrighted work.

22 Oracle PeopleSoft is thousands of lines, thousands  
23 of files, millions of lines of code. This is a tiny piece.  
24 It's less than a percent. At most, it's probably zero. So  
25 it's not substantial portion.



1 Q Did you analyze whether the lines of code that  
2 Ms. Frederiksen-Cross claimed were protectible were  
3 qualitatively important to this file or to PeopleSoft?

4 A Yes. And, in my opinion, they're not qualitatively  
5 important, they're simply pulling information from a database  
6 as part of a specific function. They're not qualitatively  
7 important to PeopleSoft.

8 Q Do you recall whether Ms. Frederiksen-Cross even claimed  
9 that they were qualitatively important?

10 A I don't recall her saying that.

11 Q All right. Professor, Ms. Frederiksen-Cross testified  
12 about some unique -- I think, in her words, unique or  
13 idiosyncratic spacing in the two files. Do you recall that?

14 A Yes, I do.

15 Q What was she saying?

16 A Ms. Frederiksen-Cross said that because some words had  
17 two spaces -- and, for example, one of the words was t-o, and  
18 another word was c-o-m-p, and we see the c-o-m-p on this  
19 slide, that because there are two spaces before the comp, that  
20 that idiosyncratic two spaces, let's say, rather than one, was  
21 an indication of copying.

22 Q So here on this slide, on DDX-535, we're looking at  
23 Oracle Exhibit 175 at page 6, and we're looking at the line of  
24 code that's the Oracle line at 139.

25 And so what are we looking at here with the red

1 boxes on your slide?

2 A The red boxes indicate two spaces between zero and comp.  
3 And Ms. Frederiksen-Cross contended that the fact that there  
4 are two spaces here, and sometimes one space, that that  
5 idiosyncrasy was an indication of copying.

6 Q And do you agree, Professor?

7 A No, I disagree.

8 Q Why do you disagree that the spacing does not indicate  
9 copying?

10 A Well, first, both files use a combination of different  
11 spacing. We're going to see some examples with t-o that had  
12 two spaces before and sometimes one space before, and that's  
13 not the same in all files. Sometimes there are two spaces  
14 before the word "to," sometimes there's one space.

15 And we'll see that in the situation with c-o-m-p,  
16 there's a very good reason that there're two spaces before the  
17 c-o-m-p, and those good reasons are, as we'll see in a slide,  
18 not an indication of copying but an indication of programmers  
19 following convention.

20 Q All right. Let's look at one of your examples. We're  
21 looking at DDX-537 which is showing a copy of the Rimini file  
22 DTX-501, page 7.

23 Professor, can you explain how this relates to your  
24 opinions.

25 A Yes. Ms. Frederiksen-Cross said that the occurrence of

1 two spaces before the word "to" and two spaces after it, and  
2 that's what we see on this slide, two spaces before the word  
3 "to" and two spaces after, that because that was in common, in  
4 her diagram, between both files, that was an indication that  
5 the Rimini file had been copied from the Oracle file.

6 But in this example, this is from the SELECT-PRVCHKS  
7 section. That's in the Rimini file and it's not in the Oracle  
8 file so it can't be an indication of copying because it  
9 doesn't appear at all in the Rimini file.

10 And if we look at all of the Oracle file and all of  
11 the Rimini file, we'll see sometimes there's two spaces,  
12 sometimes there's one.

13 It's not as though this is unique and only occurs  
14 once. There are many occurrences of two spaces on either side  
15 of "to," and many occurrences of one space.

16 In this slide it's clear that it can't be an  
17 indication of copying because this section does not occur in  
18 the Oracle file.

19 Q So let me just make sure I understand what's happening.

20 So on the slide, we're looking at Rimini file; is  
21 that right?

22 A That's correct.

23 Q And is this is a section of the Rimini file that has no  
24 analogous section in the Oracle file?

25 A Yes. We can see the flower box says SELECT-PRVCHKS

1 section, and, as I mentioned at the outset, that's  
2 functionality that's in the Rimini file but it's not in the  
3 Oracle file, so it can't be copied because the functionality  
4 is missing.

5 Q The Oracle file doesn't have any code that deals with  
6 selecting previous checks?

7 A None.

8 Q And here we see Rimini was using a convention of having  
9 two spaces around the word "to."

10 A In this part of the program, that's correct.

11 Q And in your opinion, Professor, do they do that in other  
12 places in the program?

13 A Yes. I indicated that there are several places that have  
14 two and several places that have one. That's not an  
15 indication of copying.

16 Q All right. Let's go to your second example.

17 A This is the c-o-m-p.

18 And, in this version of the diagram, there are two  
19 spaces before the word "comp." That is not an indication of  
20 copying.

21 Q So hold on. Let me just set the stage here.

22 So we're looking at a slide that's showing DTX-501,  
23 and the line that says VALUE ZERO COMP; is that right?

24 A That's correct. And it's labeled original spacing. This  
25 is the version that's in the Oracle file -- sorry, in the

1 Rimini file. We have two spaces before "comp."

2 Q And Ms. Frederiksen-Cross was noting that the -- a line  
3 in the Oracle file also said this same thing with the  
4 SQL-CURSOR, or the PIC 9999 that you explained has to be that  
5 way, and also has two spaces?

6 A Yes. And, as I understand it, she claimed that that two  
7 spaces was an indication of copying.

8 Q Okay. Well, why are there really two spaces there,  
9 Professor?

10 A Well, there are two spaces there so that the word c-o-m-p  
11 that's at the end of the line lines up with the other  
12 occurrences of c-o-m-p.

13 So when we draw a line straight down, we'll see that  
14 the C is lined up with the Y, in Y to date, which is lined up  
15 with the C in comp at the bottom.

16 And I mentioned that COBOL programmers line things  
17 up. That's very common.

18 So the two spaces here are because the programmer  
19 wants to ensure that the comps are aligned. It wouldn't look  
20 the same if we only had one space.

21 Q What's it looks like if you do one space instead?

22 A Well, if we only have one space and we draw that line,  
23 we'll see that the C isn't aligned because it doesn't have two  
24 spaces.

25 The two spaces there are to ensure that this is

1 lined up. They're not an indication of copying, they're an  
2 indication of following COBOL conventions.

3 Q Now, let me ask you, Professor, if one were to have used  
4 the Oracle exhibit, Oracle Exhibit 237, which did not have the  
5 fixed-width font as we looked at earlier today in your  
6 testimony, would anybody notice the spacing issue?

7 A You wouldn't see the lining up with the spacing issue  
8 because a fixed-width font would not have been used.

9 Q So you'd miss this.

10 A You would miss this.

11 Q Professor, if you asked your students to write a program  
12 that pulls data from a database, and you had two students turn  
13 in files that looked like the Rimini file in this case, would  
14 you report them to the dean for copying?

15 A No, I wouldn't, because even though it appears, on first  
16 glance, that there's some similarities, as I just showed,  
17 analytic dissection indicates that these constraints of  
18 programming language and functionality and API would indicate  
19 they are not substantially similar, and I would not turn them  
20 in.

21 Q All right. Professor, based on all of your analysis with  
22 these two files, what are your final conclusions?

23 A The normalized line count is an unreliable methodology.

24 As I mentioned, these files have substantially  
25 different functionality. They don't do the same thing even

1     though they pull information from the same database.

2             The matches that are purported to be matches aren't  
3     protectible expression. Even if we assume they were  
4     protected, which they aren't in my opinion, clearly they are  
5     *de minimis*, and they're not substantial.

6             So the Rimini file, PSPTARRY -- sorry, rspcmpay, and  
7     the Oracle file, PSPTARRY are not substantially similar.

8     Q     All right. Thank you, Professor.

9             Let's move on to the next issue. So we're  
10    going to move on to Issue 9, which is a JDE technical  
11    specification. Can you describe to us what the dispute is  
12    there.

13    A     Yes. As I understand it, there's a JDE technical  
14    specification written by Rimini engineers, and  
15    Ms. Frederiksen-Cross contends that it contains JDE source  
16    code.

17             MR. McCracken: All right. Let's look at  
18    Exhibit 80, please -- sorry, Oracle Exhibit 80, please.

19    BY MR. McCracken:

20    Q     Is this the technical specification that is alleged to  
21    contain come copied Oracle code?

22    A     Yes. This is the JDE update technical specification, and  
23    we can see it's many, many, many pages.

24    Q     How many pages is it, can you tell?

25    A     I believe, at the bottom we see that it says this is page

1 1 of 49.

2 Q And just generally, Professor, can you describe what's in  
3 the technical specification?

4 A Yes. We can see all the parts of the technical  
5 specification and we've heard about them before, that this is  
6 a document that describes the changes that are going to be  
7 made. It describes the process that went into making those  
8 changes. It describes the JDE objects that are going to be  
9 part of these changes.

10 So it's a lengthy description that describes the  
11 changes and the process going into making those changes.

12 Q Maybe we should look at page 2, it's the Table of  
13 Contents.

14 A It's --

15 Q Go ahead, sorry.

16 A I mentioned already, the Design Approach, the Object  
17 Changes, the Summary of the Object Changes, and we can see  
18 that in this technical document it's going to be a summary for  
19 EnterpriseOne and JDE World.

20 A lot of information that the Rimini engineers used  
21 to create this, and then used -- and then to use it are in  
22 this technical specification.

23 Q What's an object change?

24 A In JDE, part of JDE are objects, and they need to be  
25 changed to achieve specific functionality.



1 Q All right. Let's turn to page 10, please.

2 Now, I believe this is the part of the technical  
3 specification that's going to start getting into code changes.

4 Can you tell, is this part of the technical  
5 specification for EnterpriseOne or --

6 A I think if we zoom back out, we'll see at the top it says  
7 System Object Specifications (E1). That's on 1.3.4 at the top  
8 of the page, and that E1 is for EnterpriseOne.

9 Q Okay. Let's turn the page to page 11, please.

10 And, Professor, what are we seeing on page 11?

11 A On page 11 we're seeing part of the document that a  
12 Rimini engineer would use to create this update in JDE.

13 And what we have here is the code written by the  
14 Rimini engineer, that's in the box with a rectangle around it  
15 that says Add, and we see two boxes of that on this page.

16 And if we kept flipping the pages, we would see more  
17 and more boxes, because the Rimini engineers have created a  
18 lot of Rimini code that are going to be added to the JDE to  
19 make -- to add this functionality for the update.

20 MR. McCracken: Let's do that. Let's flip  
21 through some pages. Can you go to page 12, Mr. Jay.

22 BY MR. McCracken:

23 Q So, again, we're seeing the Rimini code in the boxes that  
24 say Add?

25 A All the boxes that say Add, also begin with Begin RS,

1 that's Begin Rimini Street. So all of the code in the boxes  
2 is written by Rimini developers.

3 MR. McCracken: Mr. Jay, can you just flip  
4 through, maybe, five to eight pages.

5 Thank you.

6 And so let go back to page 11, if we can.

7 BY MR. McCracken:

8 Q So, Professor, what was Ms. Frederiksen-Cross' allegation  
9 with respect to this file?

10 A Her allegation is that JDE source code is copied into  
11 this file. I disagree.

12 Q And what are the pieces of code that she claims are  
13 copied?

14 A Well, what we see before these boxes are lines that I  
15 call markers. For example, before the first box, we see OC  
16 and then Corr and then Roth and some other aspects, and we see  
17 some ellipses.

18 This is a marker. This isn't code. It's based on  
19 code in the JDE file, but this is a marker to indicate to the  
20 developer where to add the Rimini-developed solution that's  
21 going to be added.

22 So this is simply a marker based on the code in the  
23 JDE file, but by itself this is not code.

24 Q What do you mean by a marker? What was the purpose of a  
25 marker?

1       A     Well, as I mentioned, all the Rimini code that's here  
2 needs to be added into the JDE environment at a specific  
3 place.

4               So you can't just add it anywhere, you must add it  
5 where it's going to do its job, perform the function that it's  
6 written for, and that's at a specific place.

7               So the marker indicates where you look in the JDE  
8 file. So you're going to be looking at the source code in the  
9 JDE file on the client's environment. You need to know where  
10 to look, and this is a marker that indicates where to look.

11       Q     Are the ellipses significant to you?

12       A     Yes. The ellipses indicate, first, that the programmer  
13 writing this marker was affirmatively trying not to write all  
14 the code, that they were taking steps to avoid actually  
15 including code and just including a marker to indicate where  
16 to go.

17       Q     Can you run this piece of partial code, the ellipses or  
18 without?

19       A     You cannot run this. As I mentioned, it's not code.  
20 Even if the entire line was here, you wouldn't be able to run  
21 it because it's not in a JDE object or program.

22               So it's not runnable, it's not the whole line of  
23 code, it's a marker based on that line of code.

24       Q     Is it creative?

25       A     No, it's simply indicating where in the JDE file we're

1 going to add our Rimini-developed code.

2 Q Are there any alleged lines of copied code in the  
3 technical specification that are performing some purpose other  
4 than simply serving as markers?

5 A No. When I heard Ms. Frederiksen-Cross in court, she  
6 actually used the word "marker" and, I believe, "segment"  
7 because "snippet" meant too much. But in either way, it's  
8 simply a marker, that's what I heard.

9 MR. McCracken: Let's look at another page of  
10 this. Let's go to page 26, please.

11 BY MR. McCracken:

12 Q And, Professor, what are we looking at on this page?

13 A We're looking at another example of Rimini-developed  
14 code, and we're looking at the marker before it.

15 And this is a rather lengthy marker. It begins  
16 "If," and then we see "VARpt," and then there's several lines.  
17 Some of the lines are only ellipses.

18 So there's absolutely nothing here, no characters  
19 related to what we would find in the actual JDE file.

20 Q And what's the purpose of this? Why did somebody put  
21 this -- these words and then a bunch of ellipses into this  
22 tech spec?

23 A Again, it's a marker indicating where to go in the JDE  
24 file to add the Rimini-developed code, and it's enough of a  
25 marker to be able to find it.

1           But, again, the person who wrote this technical  
2           specification included enough to make sure that we could find  
3           where to go. But by putting ellipses here, it's clearly not  
4           code.

5           Q     Professor, with your 30 plus years of experience as a  
6           Professor, can you tell what this Oracle code is by looking at  
7           this technical specification with a bunch of ellipses in it?

8           A     No, I could not possibly fill in those ellipses with  
9           actual code, so I don't know what the code actually does  
10          without looking at the file from which it came which I'd find  
11          by using this as a marker.

12          Q     How many lines of code are in the original Oracle JDE  
13          EnterpriseOne file that this -- these snippets are allegedly  
14          copied from?

15          A     I think it's something like 8,000; more maybe.

16          Q     Do you think Rimini copied a substantial portion of that  
17          file?

18          A     No. First, I don't think Rimini copied anything. I  
19          think Rimini looked at that code and created a marker as to  
20          know where to go.

21                 But I also think that these lines are certainly a  
22          tiny portion of the file as a whole, but I don't think they're  
23          copied.

24          Q     Do you think Rimini's technical specification is  
25          substantially similar to Oracle's JD Edwards file?

1       A     No.  It's not substantially similar.  It includes no  
2     code, simply markers based on that code, and it's absolutely  
3     *de minimis* by any stretch of the word *de minimis*.

4                 MR. McCracken:  Let's go to page 32, please.

5     BY MR. McCracken:

6       Q     So here, Professor, are we going to start looking at the  
7     Rimini code for the JDE World version of JDE?

8       A     Yes.  We can see at the top it says 1.3.5, the System  
9     Specifications for JDE World.

10                MR. McCracken:  Okay.  Let's turn the page --  
11     actually, let's go to page 36, please.

12     BY MR. McCracken:

13       Q     And I believe Ms. Frederiksen-Cross testified about this  
14     particular page in her testimony.  Do you remember that,  
15     Professor?

16       A     Yes, I do.

17       Q     What was her allegation?

18       A     That this was code that was copied from the JDE file.

19       Q     What specifically was code copied?

20       A     The parts of this line -- so the line I'm reading says,  
21                "Add code lines before the "If \$CT3," I read  
22                that as not equal to "\$T3 OR" conditional block."

23                So I believe Ms. Frederiksen-Cross contends that  
24     the "if \$CT3" not equal to "\$T3 OR" was code, but it's not,  
25     it's a marker.

1 Q And what purpose is it serving?

2 A It's serving to find where in the JDE World file we would  
3 add the code developed by the Rimini engineer.

4 For example, this "OR" conditional block," that's --  
5 by itself this isn't code because the "OR" conditional block"  
6 is similar to an ellipses. This wouldn't run, and there's  
7 many parts missing after it.

8 In terms of the actual "OR" conditional block,"  
9 that's a lengthy piece of code. This is just a tiny part of  
10 it that indicates where we would find the location to add the  
11 Rimini-developed code.

12 Q What's an "OR" conditional block"?

13 A An "OR" conditional block" is, I might say, well, if it's  
14 rainy, or it's Friday, or I'm ready, I'll go do something.

15 So the "OR" is those conditions. If it's rainy or  
16 Friday, I'm going to go do something. Well, it's Friday,  
17 so --

18 Q So in the Oracle file are there a long list of these  
19 conditions?

20 A Yes.

21 Q And is the "CT3" -- you called it not equal to "T3," is  
22 that just one of them?

23 A No, that's the condition.

24 The "CT3" not equal to "T3" says if that's true, or  
25 something else is true, or something else is true -- so, yes,

1 that is one of the conditions.

2 Q Does that code, by itself, is it creative to you?

3 A No, it is not.

4 Q Does it do anything by itself?

5 A No. First, it would have to be part of a program, then  
6 you would have to have the rest of the conditional block which  
7 is missing. So it doesn't execute, and it's, as I mentioned  
8 earlier, simply a marker.

9 MR. McCRACKEN: All right. Let's take that  
10 down, please, Mr. Jay.

11 BY MR. McCRACKEN:

12 Q And, Professor, how many lines of code are in that JDE  
13 World file, if you recall?

14 A It's roughly 4,000 lines in the World file.

15 Q Wow.

16 Just to wrap this up, in your opinion, is the  
17 inclusion of those marks in the Rimini technical  
18 specification, is that copyright infringement in your opinion?

19 A No, it's not because, as I mentioned, it's not code, it's  
20 markers, and, it's not substantially similar.

21 Q All right. Thank you, Professor.

22 Let's move on to your next opinions. So what's  
23 coming next, Professor?

24 A Next we have four issues that I have used the label  
25 Cross-Use Or Derivative Work to describe, and we're going to



1 walk through these, as I understand it.

2 Q Now, Professor, how do you analyze whether --

3 MR. McCracken: Oh, we have new binders hand  
4 out. Sorry. Thank you very much.

5 BY MR. McCracken:

6 Q All right. Professor, how do you analyze whether some  
7 activity by Rimini is cross-use?

8 A I think we have a demonstrative that describes this.

9 Q Yeah. We're looking at DDX-544.

10 A Right. So we see here, paragraph 4 from the permanent  
11 injunction order, and there are two steps.

12 One, there must be a reproduction or derivative work  
13 of Oracle software.

14 And then, two, if there is a reproduction or  
15 derivative work of client A's Oracle software, we determine  
16 whether this was solely to support client A or to support  
17 another client, and it's not cross-use if the reproduction is  
18 to support client A and not another client.

19 Q Is it cross-use if there is no reproduction or derivative  
20 work or use of Oracle software?

21 A No, it is not, we must see both these.

22 Q Professor, did you have an understanding of derivative  
23 work that you applied for purposes of your analysis?

24 A Yes, I did.

25 Q What was that?

1       A     I understand that to be a derivative work it must  
2       substantially incorporate protective material from a  
3       preexisting copyrighted work, and it must exist in a concrete  
4       or permanent form.

5       Q     Before we dive into the specific issues, are  
6       there any major areas of disagreement you have with  
7       Ms. Frederiksen-Cross as it relates to derivative works  
8       and cross-use?

9       A     Yes. I think her understanding of cross-use is overly  
10      broad, that it wouldn't allow Rimini engineers to reuse the  
11      know-how and knowledge that they have, that they've learned in  
12      performing their work, and that, as she views it, it wouldn't  
13      allow Rimini engineers to write their own code and use it in  
14      more than one environment.

15      Q     From the technical perspective -- and I know you're not a  
16      lawyer -- does the injunction prohibit Rimini reproducing its  
17      own work product?

18      A     It does not, as I understand it, no.

19      Q     Can you give me an example of how Ms. Frederiksen-Cross'  
20      cross-use theories as applied restrict Rimini's use of its own  
21      know-how and work product.

22      A     As I understand Ms. Frederiksen-Cross' theories, once an  
23      engineer develops a solution for a client, for that client, it  
24      might be impossible to ever use that solution or knowledge for  
25      any other client. That doesn't make any sense to me in terms

1 of how software is developed and used to support clients.

2 Q All right. Let's turn to your next issue, which I think  
3 is Issue 3, and can you just describe to us what the issue is  
4 with Issue 3.

5 A Yes. We can see this on this slide, and we've seen this  
6 several times in previous days.

7 Johnson Controls reported an issue with their W2  
8 form, that text was cutoff in box 14 and box 17, and they  
9 asked Rimini to help them fix this problem.

10 Q And what was Ms. Frederiksen-Cross' contention with  
11 respect to this particular update?

12 A That by fixing the update in the City of Eugene's  
13 development environment, and then using the knowledge that  
14 they gained to fix it in Johnson Controls, that that was  
15 cross-use, and they used some e-mail to understand --  
16 Ms. Frederiksen-Cross used some e-mail in support of that  
17 theory.

18 Q Yeah, And what did Ms. Frederiksen-Cross rely on for her  
19 opinions about cross-use?

20 A This e-mail says Sheffield -- that's Don Sheffield, a  
21 developer from Rimini -- states he tested the proposed  
22 solution here locally on COEX -- as I understand it, that's  
23 the City of Eugene's development environment -- but in the  
24 e-mail he didn't state that he tested it at Johnson Controls.

25 Q Do you agree with Ms. Frederiksen-Cross' opinion that

1 this update constituted cross-use?

2 A Absolutely not.

3 Q Why is that?

4 A First, Ms. Frederiksen-Cross ignored that the City of  
5 Eugene was one of many clients that would potentially be  
6 affected by this bug.

7 Testing a solution to this bug in the City of  
8 Eugene's environment isn't cross-use because the City of  
9 Eugene would be affected by this bug potentially, and, then,  
10 the solution that was developed was specifically tested in  
11 JHN's environment.

12 Q Why do you say that many clients would potentially be  
13 affected by this bug in the W2 form?

14 A Well, in the e-mail that Ms. Frederiksen-Cross relied on,  
15 we that in the e-mail that many clients would be potentially  
16 affected by this bug.

17 Q Let's look at DTX-302 at page 2.

18 Professor, if we'd look at this, is there anything  
19 in this e-mail that was significant to your opinions?

20 A The second line of the e-mail that starts with "Looks,"  
21 we see,

22 "Looks like this could be a potential problem  
23 for all new clients switching from tax960us to  
24 rsi960us who have left the formatting field blank."

25 That's an indication that there are all -- many

1 new clients, many new clients might potentially affected by  
2 this bug.

3 Q And if we go up to the top e-mail on page 2 of DTX 302,  
4 so pages 1 and 2 of DTX 302 --

5 A At the top -- right after that. That's one, thank you.

6 Q Yeah, Professor, what about DTX-302 at pages 1 and 2 is  
7 significant to your opinion?

8 A There's a reference to GPT, Global -- sorry, GPD, Global  
9 Product Delivery.

10 "Please let me know after you scope if you  
11 think other clients could be impacted."

12 So clearly Rimini is thinking that other clients  
13 are going to be impacted by this bug.

14 Q Is this the e-mail that Ms. Frederiksen-Cross relied on  
15 for her opinion that this was cross-use?

16 A Yes.

17 Q Let's look at DTX-304, page 1.

18 And, Professor, what about this e-mail is  
19 significant to your opinions, if anything?

20 A There's an e-mail here that says, "I think putting print  
21 format B999999.99 will work."

22 And then it says,

23 "I think this will be a potential issue for  
24 clients that received rsi960us and that have this  
25 setup."

1                   So, again, it's clients that have received this  
2                   update will be potentially affected by this bug. All their  
3                   clients would be potentially affected, and Rimini would have  
4                   to create this solution for them.

5           Q     Is City of Eugene one of the clients that has  
6                   rsi960us.sqr?

7           A     Yes, that's my understanding, they do.

8           Q     What was the ultimate solution that Rimini found with  
9                   regard to solving this truncated digits issue?

10          A     Well, we actually see that in this e-mail. It developed  
11                that putting B999999.99, putting those characters into the  
12                print format field fixed the bug.

13          Q     Is this typing those literal characters into a box?

14          A     Yes. Now, that box is in the PeopleSoft environment in  
15                this case for the client. But, yes, simply typing those  
16                characters into that box fixed the bug.

17          Q     All right. How did Rimini develop this fix for City of  
18                Eugene and Johnson Controls?

19                       MR. McCracken: Let's get our slide deck back.

20          BY MR. McCracken:

21          Q     So we're looking at DDX-551, and, Professor, could you  
22                use your demonstrative to explain how this was developed for  
23                City of Eugene and Johnson Controls.

24          A     Right. We saw an indication of this in the e-mail, that  
25                Rimini engineers determined that typing B999999.99 into that

1 field in the City of Eugene's environment to fix the bug for  
2 the City of Eugene who would be potentially affected by that  
3 bug, it did in fact fix that bug.

4 So they developed this solution by going into the  
5 City of Eugene's development environment and trying it and  
6 seeing that it worked.

7 Q In you opinion, Professor, is going into the City of  
8 Eugene's environment and typing in B999, was that cross-use at  
9 that point, Professor?

10 A No, because the Rimini engineers knew that the City of  
11 Eugene was in the United States and had contracted to get  
12 these W2 updates, so they were fixing the City of Eugene's  
13 environment because they were potentially affected by the bug.

14 Q Who, in your opinion, was Rimini supporting when it  
15 tested this B999 fix in City of Eugene's environment?

16 A They were supporting their client, the City of Eugene,  
17 because they had been contracted to support the City of  
18 Eugene, and that fix was for the City of Eugene.

19 Finishing my description, once that -- once the  
20 engineer determined that, they instructed Johnson Controls to  
21 make the same fix.

22 So they've simply reused the knowledge that they've  
23 gained from making the fix in the City of Eugene's environment  
24 for the City of Eugene because they would be potentially  
25 affected by the bug. They then used that knowledge and

1 know-how to fix the bug by calling Johnson Controls and saying  
2 please try this.

3 Q Was the B999 -- how was that implemented in Johnson  
4 Controls' system, if at all?

5 A A Johnson Controls IT support or engineer person went in  
6 and typed that into their environment.

7 Q And was Rimini using Johnson Controls' PeopleSoft  
8 software at that point?

9 A Either Rimini had instructed someone to use Johnson  
10 Controls' environment to fix Johnson Controls' problem, so  
11 they were using Johnson Controls' PeopleSoft environment to  
12 fix the bug for Johnson Controls.

13 Q Is that cross-use?

14 A No, it is not because in this case they were using  
15 Johnson Controls' environment for Johnson Controls.

16 Q Was this update tested in Johnson Controls' environment?

17 A Yes, it was.

18 MR. McCracken: Let's look at DTX-302 at page 2,  
19 please.

20 BY MR. McCracken:

21 Q Is this an e-mail you relied on for your analysis?

22 A Yes. We can see that in this e-mail the person response,  
23 "That worked. Thanks for jumping in at short notice."

24 And then we also see what we saw before, "this is a  
25 potential problem for all new clients," but clearly we see,



1 "That worked," so we know it was tested in Johnson Controls  
2 and that it worked as expected.

3 Q We heard from Mr. Bengé, I guess it was yesterday, that  
4 while this update or bug fix was eventually delivered to  
5 clients, including City of Eugene, it wasn't delivered  
6 immediately. Do you recall that?

7 A Yes.

8 Q And does that affect your opinion whether this was  
9 cross-use?

10 A No, it doesn't. At the time that the Rimini engineers  
11 were implementing the fix in the City of Eugene's environment,  
12 it was because they were potentially affected by the bug and  
13 so they were working in the City of Eugene's environment for  
14 City of Eugene.

15 Q I want to ask you, so under Ms. Frederiksen-Cross'  
16 theories about cross-use, if Rimini had solved this issue,  
17 let's say for Johnson Controls, and determined that typing in  
18 B999 into the field fixes the issue, and let's say we have  
19 another client that shows up and is having another problem  
20 with their W2 print form, is there any way that Rimini can fix  
21 that problem for the second client?

22 A They could type B999999.99 in there. I don't know how  
23 they would do that without using the knowledge that they'd  
24 gained. They would have to reuse their knowledge and  
25 know-how.

1 Q And would that be cross-use under Ms. Frederiksen-Cross'  
2 theories?

3 A It would appear to be.

4 Q Let's move on to the next issue. Let's talk about Issue  
5 4 which is rsi940a.sqr, and it's the update HCM200049.

6 A Yes.

7 Q And, Professor, can you just tell us -- remind us, I know  
8 we've been hearing about these updates for four days, but  
9 remind us which update this is.

10 A This is an update for the federal tax form 940A that had  
11 some misalignment issues.

12 We can see in this diagram what those misalignment  
13 issues are, that those Xs that we see over there in the middle  
14 of the page for West Virginia, New York, and Puerto Rico, I  
15 guess, I can't tell for sure, that the Xs aren't where they're  
16 supposed to be. They're supposed to be in the middle of the  
17 box.

18 So there was a misalignment issue for Schedule 940A  
19 of the IRS.

20 Q All right. And what was Ms. Frederiksen-Cross'  
21 allegation in respect to this update?

22 A That Don Sheffield makes a change to rsi940, says he  
23 completed it in the City of Eugene, and sent the fix to all US  
24 clients, and that this was thus cross-use.

25 Q Do you agree with Ms. Frederiksen-Cross on this update?

1 A No, I do not.

2 Q Why not?

3 A Once again, the update rsi940a is completely Rimini work  
4 product. There is no Oracle copyrighted expression in  
5 rsi940a.

6 And many clients, including the City of Eugene, were  
7 slated to receive this update. When the testing was done in  
8 the City of Eugene's environment, it was for the City of  
9 Eugene because they would be affected potentially by a change  
10 to Form 940.

11 Q We went through the file at issue in this update with  
12 Mr. Benge yesterday, but can you remind us, what are the files  
13 at issue for this update?

14 A There are three files, I think, that are described on  
15 this page. There is the Schedule A 940, that's just a GIF or  
16 image file.

17 There's the instructions for using Schedule A, and  
18 then there's the Rimini written file, rsi940a.sqr. We can see  
19 that there on the left.

20 That's a Rimini-developed file. We see the logs at  
21 the top that indicate it's a Rimini-developed file.

22 Q Did you review these files as part of your analysis?

23 A Yes.

24 Q Do any of these files contain any Oracle copyrighted  
25 material in your opinion?

1 A They do not.

2 Q What's your understanding of which company wrote the  
3 rsi940a file?

4 A As I mentioned, rsi940a is written by Rimini developers.  
5 We see that because it says -- it's named rsi940a, and the  
6 developers have included a log at the top that indicates  
7 they've made modifications over several years.

8 Q Why does it matter to your cross-use opinions that these  
9 files do not contain any Oracle copyrighted material?

10 A Because in my definition of cross-use that we discussed  
11 earlier, the first prong, as it were, is that there must be a  
12 reproduction of Oracle software. This is not Oracle software.

13 Q All right. The second point on your introductory slide  
14 was that Ms. Frederiksen-Cross ignored that many clients were  
15 slated to receive this update. Can you just explain that.

16 A Yes. Similar to what we had before, there's some e-mails  
17 that described that many clients were likely to need this  
18 update and thus would get it.

19 MR. McCracken: Let's look at Oracle Exhibit 21.  
20 Let's look at page 6.

21 BY MR. McCracken:

22 Q And, Professor, what, on this page, if anything, was  
23 significant to your opinion that multiple clients required  
24 this update?

25 A The last sentence of this e-mail says, "Are SPH and SME,"

1 that's Spherion and Smead,

2 "Are Spherion and Smead getting this update  
3 earlier than the rest of the clients?"

4 And the "rest of the clients" would be the other  
5 ones that were going to get the update.

6 Q And let me back up. Is it logical to you that more than  
7 a couple clients would need this update?

8 A Yes. As I mentioned, this a federal tax form, 940A, so  
9 potentially every US client of Rimini Street would need this  
10 update.

11 Q All right. Let's go to page 2 of this document.

12 And, Professor, this is the document, this is the  
13 e-mail chain that describes the development of this update; is  
14 that right?

15 A Yes, that's correct.

16 Q We've seen this a lot --

17 A We have.

18 Q -- throughout court?

19 A Yes.

20 Q And so, Professor, what, if anything, on page 2 is  
21 relevant to your opinions?

22 A The second sentence -- the end of the first sentence is  
23 perhaps the most relevant. It says,

24 "I have completed the testing in COEX, and  
25 I've rolled the two GIF files and the modified

1           version of the rsi940a.sqr program out to all US  
2           clients,"  
3           and then excluding those that have gotten another Oracle  
4           update.

5                        "All US clients," that's many clients that would be  
6           potentially affected by this change.

7           Q     Is there any reason a Rimini engineer would use Transfer  
8           Files to transfer these files to US clients unless they needed  
9           it?

10          A     No. You would transfer these files to all the US clients  
11          who would be -- potentially need it, as you indicated, because  
12          it's a federal tax form.

13          Q     And is City of Eugene one of the US clients with version  
14          less than 2018-B?

15          A     Yes, it is.

16          Q     What else is relevant to your analysis from this e-mail?

17          A     It says,

18                        "I could use CreateUpdateFolders for all US  
19           clients that will ultimately get this update."

20                        You've heard testimony about  
21          CreateUpdateFolders, that's a Rimini tool that helps ensure  
22          that these fix -- the files in this case are sent to the US  
23          clients so that they it can be tested in their environment.

24          Q     And why is it meaningful that Don Sheffield says "all US  
25          clients that will ultimately get this update"?

1       A     Because it's an indication that the Rimini engineers  
2     thought at this time that all of the Rimini clients in the  
3     US -- again excluding the ones that had gotten Oracle update  
4     2018-B -- were going to receive this update.

5       Q     In this e-mail Mr. Sheffield indicates that he rolled out  
6     the two GIF files and the modified version of rsi940a.sqr to  
7     these "all US clients" with certain versions.

8                 Does sending that file copy any Oracle code in your  
9     opinion?

10      A     No. As I mentioned, and we've already discussed, rsi940a  
11     is a Rimini-written file on Rimini systems. It does not  
12     incorporate any Oracle expression at all, and the other files  
13     are GIF files created from IRS forms. So none of those files  
14     have Oracle protected expression in them.

15               MR. McCRACKEN: All right. Mr. Jay, can we take  
16     down the exhibit, please, and go back to the demonstratives.

17     BY MR. McCRACKEN:

18      Q     And, Professor, using this demonstrative DDX-557, can you  
19     explain how Rimini developed this update for its multiple  
20     clients.

21      A     Yes. In the bottom we see that Rimini Street has the  
22     rsi940a.sqr in the IRS forms.

23               Now, the City of Eugene had an older version of  
24     rsi940a, and because they were a client who would likely need  
25     this update, Rimini engineers went into the City of Eugene's

1 environment, made changes to the rsi940a to make sure that the  
2 forms were printed properly, tested them in the City of  
3 Eugene, again, for the City of Eugene because they were one of  
4 the US clients potentially affected by this bug.

5 And once they had rsi940a working as they wanted,  
6 they then had on their system -- again, this rsi940a with no  
7 Oracle protected expression, no Oracle copyrighted expression  
8 at all in it -- that's on the Rimini Street servers, and then  
9 they were able to send it via their tools to their clients to  
10 test it in their environments.

11 Q Let me break that down. So after -- you said that after  
12 -- or strike that.

13 You said that they changed the code in the Rimini  
14 file on the City of Eugene's system. What's the next step in  
15 the process after that?

16 A Well, they would write a document to describe how to make  
17 these changes because they document all the work they do, and  
18 they would make the change in their code on the Rimini Street  
19 server.

20 Q Okay. So they make the change -- so they make the change  
21 in City of Eugene, it works, and then they make the change on  
22 the Rimini Street server to document their solution?

23 A Yes, that's correct.

24 Q And then how do the other clients receive the update?  
25 How is it developed for them?



1       A     Well, Rimini Street sends it to them using their tools,  
2     for example, Transfer Files or Transfer Tools and other tools  
3     that we saw in the e-mail, CreateUpdateFolders, those are sent  
4     to the clients, Spherion and Smead.

5                Again, those files are Rimini intellectual property,  
6     or from the IRS, and then they are tested in those  
7     environments.

8                First they are tested in one client's environment,  
9     assuming that it's only one engineer. There were multiple  
10    engineers. I guess they could be testing it individually.

11               But it's tested in Spherion to see that it works in  
12    Spherion. It's tested in Smead to see that it works in Smead.

13               And, again, this is the Rimini-written solution  
14    that's being used in each client's environment to support that  
15    client.

16       Q     Now, Professor, did the sending of the rsi940a.sqr file  
17    and the IRS forms to Spherion and Smead copy any Oracle  
18    protected works?

19       A     No, sending it did not because, as I mentioned, these are  
20    Rimini intellectual property, Rimini-developed solutions on  
21    the Rimini system. So sending them did not copy any Oracle  
22    expression.

23       Q     Is it the case that the only place where PeopleSoft  
24    software was used in this diagram was in testing the solution  
25    for the City of Eugene?

1       A     In the City of Eugene, when that update -- when the fix  
2     was being developed, yes, the City of Eugene's environment was  
3     used for the City of Eugene.

4       Q     Is that cross-use in your opinion?

5       A     No, it was not, because it was used for the City of  
6     Eugene.

7       Q     I think we heard testimony over the last week that this  
8     update was eventually not delivered to the City of Eugene. Do  
9     you recall that?

10      A     Yes, I do.

11      Q     It had to do with a thing about the Virgin Islands. Do  
12     you remember that?

13      A     Yes, that's my understanding.

14      Q     Does that affect your opinion as to whether this testing  
15     in City of Eugene's environment was for the City of Eugene?

16      A     It doesn't change my opinion. It was for the City of  
17     Eugene because at the time that the testing and development  
18     was occurring the City of Eugene was potentially affected by  
19     this bug, and so that development was for the City of Eugene.

20                 What happened later doesn't affect that. During the  
21     development process it was for the City of Eugene.

22      Q     Did you prepare a timeline illustrating that opinion?

23      A     Yes. I think we can see that.

24      Q     And just --

25      A     So --

1 Q Briefly explain to us how this affects your opinion.

2 A These updates for the City of Eugene were created on  
3 January 25th. We saw in the e-mail that on January 25th they  
4 were sent to clients that would ultimately get the updates,  
5 and then only later did a business analyst determine that not  
6 everybody would get the update.

7 But this illustrates my point that at the time the  
8 engineer who is working in the City of Eugene's environment,  
9 it was for the City of Eugene. It was only later that it was  
10 determined that not everyone would actually get the  
11 development -- the update.

12 Q Did you hear Ms. Frederiksen-Cross claim that Rimini was  
13 using City of Eugene's environment for generic environment?

14 A Yes, I heard that.

15 Q Do you agree with her?

16 A No, I do not.

17 Q Why not?

18 A Because each occurrence that we've heard here for the  
19 City of Eugene was to create, test, develop an update for the  
20 City of Eugene because they were affected by the issues in  
21 that update.

22 Q Let's move to the next issue, which is Issue 6, the 1099  
23 update for Easter Seals, And --

24 THE COURT: Let me interrupt you here. We need  
25 to take an afternoon recess, and most of these sessions are

1 taking 10 or 15 minutes. Let's go ahead and take our  
2 afternoon break at this time.

3 We'll reconvene at 3:30.

4 MR. McCracken: Thank you.

5 (A recess was taken.)

6 THE COURT: Have a seat, please.

7 The record will show we are reconvened after our  
8 afternoon recess.

9 Mr. McCracken, you're welcome to go forward.

10 MR. McCracken: Thank you.

11 And good afternoon, Professor Astrachan.

12 THE WITNESS: Good afternoon.

13 BY MR. McCracken:

14 Q We're going to be moving on to issue number 6 which is  
15 the 1099 update for Easter Seals, and I believe the contention  
16 by Ms. Frederiksen-Cross is that this is a derivative work.  
17 Is that your understanding?

18 A That is my understanding.

19 Q Can you just describe for us what the issue is.

20 A Ms. Frederiksen-Cross says that because this update was  
21 specifically tailored to operate only with and modify Oracle's  
22 PeopleSoft software, that this update comprises a derivative  
23 work.

24 Q Do you agree with Ms. Frederiksen-Cross?

25 A No, I disagree.

1 Q Now, in this demonstrative, DDX-562, what are we looking  
2 at, Professor?

3 A We're looking at an e-mail with a diagram of the zipped  
4 file RSI8F07\_EAS\_GA.zip, that is the Easter Seals update.

5 Q And that's the alleged derivative work?

6 A That's correct.

7 Q And this is based on DTX-610.

8 Professor, did you analyze the files in this alleged  
9 derivative work?

10 A Yes, I looked at all the files.

11 Q And what are the different types of files in the bundle?

12 A I've grouped them here into four areas.

13 The first area are the .pdfs. So the .pdfs are  
14 client documentation explaining this bundle and instructions  
15 for installing the bundle. This is all Rimini written and it  
16 includes no alleged Oracle protected expression.

17 Q And what's the next set of documents in the bundle?

18 A These are the Data Mover scripts. That's why they have  
19 the .dms suffix.

20 Again, these are Rimini-written scripts to update  
21 vendor tables in a PeopleSoft environment. There's no Oracle  
22 copyrighted material in them.

23 Q Do you believe the DMS scripts are derivative works?

24 A No, they're not.

25 Q What's the next type of file?

1       A     These are the GIF files that deal with the 1099-I and  
2     1099-M files that we've heard about, and then instructions for  
3     those forms.

4               They are graphic interchange format GIF files that  
5     are created from the IRS materials for these forms, and  
6     there's no protected expression, no Oracle expression.  
7     They're from the IRS.

8       Q     And then, Professor, the last category of documents in  
9     the bundle are these two SQR files, rs1099I.sqr and  
10    rs1099M.sqr. Can you explain what those are.

11    A     Those are the codes to print the corresponding IRS form,  
12    1099-I or 1099-M respectively, and there's no Oracle  
13    copyrighted material in them. They are not derivative works.

14    Q     Which of these files, out of the ones you've just  
15    described, are the ones that Ms. Frederiksen-Cross contends  
16    are derivative works?

17    A     These .sqr files.

18    Q     Have you reviewed the .sqr files?

19    A     Yes, I have.

20    Q     Did you see any evidence that they incorporate any Oracle  
21    code?

22    A     No, I've seen no such evidence that they incorporate any  
23    Oracle code, nor have I heard Ms. Frederiksen-Cross contend  
24    that they incorporate any Oracle code.

25    Q     Did she contend that they incorporate any other kind of

1 Oracle copyrighted expression?

2 A No, she did not.

3 Q Did she identify, you know, what that copyrighted  
4 expression would be?

5 A There was no copyrighted expression that she identified  
6 and so there is none. There's no copyrighted or protected  
7 expression that I've seen, nor that she opined about in these  
8 files.

9 Q Why is it your opinion, Professor, that these two SQR  
10 files are not derivative works?

11 A They were written by Rimini developers on Rimini systems.  
12 No Oracle tools or code was used in preparing them. They're  
13 entirely Rimini work product.

14 Q Do those files, in your opinion, substantially  
15 incorporate any protected Oracle material?

16 A No. As I mentioned, they do not incorporate any Oracle  
17 material, let alone protected material.

18 Q What were the reasons that Ms. Frederiksen-Cross gave for  
19 why these SQR files are supposedly derivative works, even if  
20 they don't have any Oracle code in them?

21 A As I understand it, she contends that because they are  
22 designed to only work in a PeopleSoft environment and be part  
23 of that PeopleSoft environment, that that somehow makes them  
24 derivative works because they are written to only work in a  
25 PeopleSoft environment.

1 Q Do you agree with that?

2 A No, that makes no sense to me. I don't understand that.  
3 It doesn't work with my understanding of files and programs at  
4 all.

5 Q Are there examples of software in your experience that  
6 interoperate with other software?

7 A Well, I don't think this is about interoperability per  
8 se, this is about -- I have written, myself, hundreds of  
9 programs designed to work in a Windows environment. They will  
10 only work in a Windows environment. I write them to only work  
11 in a Windows environment.

12 That doesn't make them derivative works of Windows,  
13 nor do the game programmers that create games that only run in  
14 a Windows environment and, while they're running, they're  
15 running in the Windows environment, they are not derivative  
16 works either.

17 Q I think Ms. Frederiksen-Cross also opined that these  
18 files -- they extend or modify PeopleSoft. Is that your  
19 understanding?

20 A That is my understanding, yes.

21 Q And what's your opinion about that?

22 A Well, these files are certainly included as part of  
23 PeopleSoft when they're running because they're printing 1099  
24 forms in a PeopleSoft environment. So when they're running,  
25 they are running in a PeopleSoft environment for, say, one of



1 Rimini's clients.

2 And when they are running, that PeopleSoft  
3 environment that's been modified to use the 1099 forms for  
4 Rimini, that's a derivative work because it's PeopleSoft  
5 running in a client's environment, but it's running only in  
6 the client's environment, and it's the PeopleSoft that is the  
7 derivative work, not the Rimini files.

8 Q I think you have a demonstrative, Professor. We're  
9 looking at DDX-568. Can you explain that concept with  
10 reference to your demonstrative.

11 A Certainly. The 1099.sqr files, both I and M, have been  
12 developed by Rimini Street over several years. We see that  
13 when we look at these files that they have a log for each year  
14 that a new 1099 comes out.

15 So these are a Rimini-developed program. Each of  
16 them is a Rimini developed program. There's no contention  
17 that they incorporate any protected expression at all so they  
18 are not a derivative work.

19 Now, when they are running in a client's environment  
20 such as Easter Seals, when they're running, that entire  
21 environment is a PeopleSoft environment, and it's a PeopleSoft  
22 environment in which these 1099.sqr files are used to print  
23 1099 forms.

24 So they are working as a whole in the client  
25 environment for that client. They're compliant with the

1 injunction.

2 Q I was going to ask you, does it violate the injunction to  
3 have a derivative work in a client's environment for that  
4 client?

5 A No, it does not.

6 Q Do the rsil099m.sqr and 1099i.sqr files standing alone on  
7 Rimini systems modified any PeopleSoft environment?

8 A No, they do not. They can't because they're not running.  
9 They contain, as I mention, no expression, no protected Oracle  
10 expression, and they can't run because there are no PeopleSoft  
11 environments on Rimini systems.

12 Q Do you recall also that Ms. Frederiksen-Cross gave  
13 testimony about something called #include?

14 A Yes, I do.

15 MR. McCRACKEN: And, Mr. Jay, can we pull up  
16 DTX-619, which is the rsil099i.sqr file, and I think we want  
17 page 2. Maybe --

18 A No, we see this here.

19 Q Okay. So, Professor, what's the #include on this page?

20 A Well, this #include is part of the program, and in this  
21 program we see many lines of code.

22 The #include is actually a directive to the  
23 pre-compiler to do something when this code is on the client's  
24 PeopleSoft environment.

25 Q Hold on. Let's slow down because I think this is pretty

1 technical.

2           So when we're talking about #include, we're talking  
3 about the words -- I mean, like a hashtag or a pound symbol  
4 and the word include; is that right?

5       A     That's correct.

6       Q     It's -- well, continue. What is the function of a  
7 #include symbol or function in computer programming?

8       A     So this directive says #include 'setenv.sqc,' and just as  
9 it's part of this program on the Rimini system, it does  
10 nothing because, as I mentioned, this program cannot run  
11 except in a PeopleSoft environment. So here it's just  
12 characters in the program.

13           Now, when it's executed, when it's run, then  
14 something happens with the #include, and I believe  
15 Ms. Frederiksen-Cross had a diagram of what happens when a  
16 program with a #include is run on a client's PeopleSoft  
17 environment.

18           MR. McCracken: And we can look at that.

19           Can you take this down, Mr. Jay. Thank you.

20 BY MR. McCracken:

21       Q     Is this the diagram?

22       A     This is the diagram, and the source code would be this  
23 1099i.sqc with what we call a #include directive.

24           And what that does is it says, okay, this is now  
25 running in an Oracle PeopleSoft environment, certain commands,

1 functions, and variables need to be included in this program  
2 to run, and that's why it says #include.

3 In order for almost any program to run in a  
4 PeopleSoft environment, this would need to be included.

5 And so it says to the pre-compile, as you can see  
6 here, which is just part of the process of turning source  
7 code, this human readable code, into the code that runs.

8 Part of that process is please include the necessary  
9 parts to run in a PeopleSoft environment, and so they're  
10 literally included in the stream characters that results in  
11 the object code. So in that sense, they're copied into that  
12 stream of characters.

13 The stream of characters is the source code, and now  
14 that includes some PeopleSoft code because it's running in the  
15 client's PeopleSoft environment to create a PeopleSoft  
16 program.

17 Q So I hear you say that when the #include is executed it's  
18 going to include some PeopleSoft code. Did I get that right?

19 A Yes, that's correct.

20 Q Where does that happen?

21 A This is running, as it says at the bottom of this slide,  
22 on the client's environment.

23 So in the client's environment where we are running  
24 PeopleSoft, this is included. As is the case for almost every  
25 PeopleSoft program, it will include setenv.sqc, what we saw

1 earlier.

2 Q So let's go back to this diagram on DDX-568.

3 When the rsi files, the .sqrs on Rimini's system,  
4 are just sitting there with #include in them, is that copying  
5 any Oracle code at that point?

6 A No, it can't copy any Oracle code, it's not running, it's  
7 not being compiled. So no Oracle code is included in there.

8 Q So at what point is the #include going to take effect?

9 A When the program is executed, part of that compilation  
10 process that results in an executable, and that's all on the  
11 client's machine in the client's environment.

12 Q So that would occur in the top box on this demonstrative  
13 on DDX-568.

14 A That's correct. In the box labeled Easter Seals  
15 Production Environment, that's where the execution of this  
16 Rimini code results in, as it says, a derivative work, which  
17 is the client's modified PeopleSoft environment. The  
18 inclusion happens there.

19 Q When the code is run and the inclusion happens, which  
20 client's PeopleSoft software would be included and copied?

21 A In this case it would be Easter Seals since it's running  
22 in the Easter Seals environment.

23 Q And who would that -- which client would that inclusion  
24 support?

25 A It would support Easter Seals because the program is

1 running on the Easter Seals environment.

2 Q Are #includes something that's specific to PeopleSoft?

3 A No, #includes are part of many languages including, for  
4 example, this C and C++.

5 And I mentioned that I had, myself, written hundreds  
6 programs that run on Windows environments, and every one of  
7 them has a #include to incorporate Windows specific  
8 functionality as part of creating an executable, all of them.

9 Q So you, yourself, use #include.

10 A Yes, very often.

11 Q Do you teach your students to use #include?

12 A When they're writing C and C++ programs, all of my  
13 students use #include.

14 Q Are there times when you have to use #include?

15 A Almost every program, even the simplest program that  
16 students write which, by convention, is a one-line program  
17 that prints "hello, world" on the screen, that's what's  
18 typically viewed as the first program in any language.

19 And in C, for that program to run, it's going to say  
20 #include stdio.h, and when it's run that's part of any C  
21 program that prints. So even the simplest C program that we  
22 teach our students has a #include.

23 Q Professor, do you think all the programs you've written  
24 with #include are derivative works of some other software?

25 A No, I do not.

1 Q What would the consequences to your industry be if that  
2 were the case?

3 A As far as I can see --

4 MR. ISAACSON: Objection, foundation.

5 THE COURT: I'll allow him to answer.

6 THE WITNESS: As I mentioned, nearly every C or  
7 C++ program has a #include in it, and, as I see it, that would  
8 mean every program that's designed to run on a Windows  
9 environment would then be a derivative work of Windows.

10 Every program that's designed to run on an Apple  
11 computer where you also have #includes would be then a  
12 derivative work of the Apple operating system.

13 I don't see how there wouldn't be  
14 derivative works always in this case. That makes no  
15 sense to me whatsoever.

16 BY MR. McCRACKEN:

17 Q Are the RSI .sqr files created using OracleTools?

18 A No, they are not.

19 Q Ms. Frederiksen-Cross seemed to indicate that they may  
20 use OracleTools or use PeopleTools. Do you recall that?

21 A Yes. As I understand it, perhaps as part of their  
22 execution in a client's environment, in this case the Easter  
23 Seals environment, tools might be used as part of that  
24 printing process, for example, but that would only happen in  
25 the client's environment for the client.

1 Q Do the files standing alone on Rimini system use any  
2 OracleTools?

3 A They do not.

4 Q And, Professor, can you just summarize your conclusions  
5 with respect to the Easter Seals issue.

6 A These are Rimini-written files, and, as I mentioned,  
7 they're revised every year to make sure that they work with  
8 the new 1099 forms.

9 Each of these files, 1099-I and 1099-M, is not a  
10 derivative work. None them incorporate any Oracle copyrighted  
11 material.

12 It is not cross-use to work in a client's  
13 environment for the benefit of that client so that they can  
14 print 1099 forms.

15 Q All right. Professor, let's move on to the last issue,  
16 which is issue number 10, which has to do with a file called  
17 risqtrtx.sqr, which we've been calling rsi quarter tax.

18 A Yes, I remember that.

19 Q And can you just give us an overview of what the issue  
20 and dispute is here.

21 A As I understand it, Ms. Frederiksen-Cross calls this a  
22 one code for all solution and that it is distributed to new  
23 Rimini customers.

24 Q Did Ms. Frederiksen-Cross, in her testimony, identify any  
25 reproduction of Oracle software that she claimed was the



1 cross-use in this update?

2 A Not that I recall, no.

3 Q Did she identify any particular client's environment that  
4 she claims was cross-use as part of this update?

5 A No, not that I recall.

6 Q Do you agree with Ms. Frederiksen-Cross's opinion that  
7 the use of rsi quarter tax is cross-use?

8 A No, I do not.

9 Q Why not?

10 A This is a Rimini-written file. There is no reproduction  
11 of Oracle code.

12 Each time this is developed and tested in a client's  
13 environment, it is in fact developed and tested in the  
14 client's environment. In this case that is Rockefeller and  
15 Home Shopping Network. It is tested in both client's  
16 environment for the client.

17 Q All right. Let's go through some of these. I mean, I  
18 think I understand -- you've already opined on the first one,  
19 but can you explain your view on the second bullet here.

20 A Any reproduction of Oracle code would be the new modified  
21 PeopleSoft environment with this SQR file in it. Any time  
22 that happens it's in a client's environment for the benefit of  
23 that client.

24 Q And then you say here that the update was implemented and  
25 tested in RKF, I guess that's Rockefeller, and HSP, that's

1 Home Shopping Network's respective environments. What's your  
2 basis for that opinion?

3 A We saw a lot of both testimony and e-mail about how it  
4 was developed and tested.

5 This diagram shows what Mr. Bengé described as the  
6 development of this update for Home Shopping Network, and it  
7 consists of many steps.

8 Q This was the update where I examined Mr. Bengé and we  
9 walked through the 13 steps in the Dev instruction?

10 A That's correct.

11 Q Can you just describe how this development took place.

12 A Briefly. There's a document that describes what happens,  
13 and the 13 steps in the Dev instruction allow modification in  
14 the client's environment, and those consist of sending this  
15 risqtrtx.sqr file, which is Rimini work product, that's sent  
16 to a client's development environment.

17 There it's integrated. That may involve further  
18 development. It will involve unit testing and debugging. We  
19 heard about that today, and then after that, as part of the  
20 delivery, it will undergo QA testing.

21 Q And in what environments do these activities occur?

22 A They all happen in the client's environment for the  
23 benefit of that client. So in this case our diagram says it's  
24 in the Home Shopping Network environment, but the same  
25 sequence of steps would happen, for example, in the

1     Rockefeller environment.

2     Q     Did you see any evidence that this update was tested for  
3     Home Shopping Network and Rockefeller?

4     A     Yes. I've seen both e-mails and then today we saw that  
5     as well.

6     Q     What are you referring to?

7     A     I'm referring to the testimony via zoom we had earlier  
8     today from Ms. Davenport.

9                     MR. McCracken: Can we pull up DTX-1004, please.  
10    And let's go to page 2.

11   BY MR. McCracken:

12   Q     Did this document inform your opinions about whether this  
13   update had been tested?

14   A     Yes. We heard that this is an environment spreadsheet,  
15   and we can see that the last two entries in the spreadsheet  
16   for Home Shopping Network and Rockefeller Group have a status  
17   of completed for both the developer and for testing.

18                     So we know that they were developed and tested in  
19   each case in the client's environment for that client.

20   Q     All right. So based on your analysis of this update,  
21   what are your conclusions with respect to HCM200105? And I  
22   think we have a slide on the conclusions.

23   A     As I stated at the outset, there is no evidence that this  
24   rsi quarter tax contains Oracle copyrighted material, nor has  
25   there been any such assertion.

1           There's no reproduction of one client's Oracle  
2           software for another client. Each time an environment is  
3           used, it's for the benefit of that client.

4           These updates were developed in each client's  
5           environment, so once for Rockefeller and once for Home  
6           Shopping Network, and then each update was tested in the  
7           client's QA environment for Rockefeller and Home Shopping  
8           Network, thus there is no cross-use.

9           Q   All right. Last topic, Professor.

10           Ms. Frederiksen-Cross testified that Rimini's  
11           recordkeeping was poor. Do you recall that?

12           A   Yes, I do.

13           Q   What did you think of that allegation?

14           A   I don't think it's true.

15           Q   Why not?

16           A   Rimini has extensive documentation, and we've seen  
17           evidence of it in this hearing as well as throughout the works  
18           I've studied.

19           For example, we've seen that Jira is used to track  
20           all client updates that Rimini does. Jira is standard  
21           industry software used by tens or hundreds of thousands of  
22           clients, depending on how much their website I would like to  
23           believe, but I've known other groups that use Jira.

24           Spira is another industry standard software suite  
25           that's used for tracking, testing, and quality assurance.

1 Previous to using Jira and Spira, as I understand  
2 it, Rimini used DevTrack, another standard tool.

3 All these tools contain extensive logs and  
4 information that allows Rimini to do what they're hired to do.

5 We also have seen examples of Salesforce which is  
6 another industry standard tool that Rimini uses to interact  
7 with its clients.

8 We've seen RiminiTools that keep extensive logs.  
9 Every time Transfer Files happens there's a log. We saw today  
10 the logs for Create Update and Apply Update.

11 Extensive logs are created throughout the process  
12 that Rimini uses to support its clients. So I've seen  
13 evidence of many good recordkeeping tools and procedures.

14 Q Ms. Frederiksen-Cross criticized Rimini for not having  
15 what she called a version control system. Is that your  
16 understanding?

17 A Yes, I remember that.

18 Q Do you think that was a fair criticism?

19 A No, I don't think that's a fair criticism because Rimini  
20 is not in the business of being a software developer. They're  
21 a client support organization.

22 So in a standard software development environment we  
23 might expect to some version control system, but, in a support  
24 company such as Rimini Street, that wouldn't necessarily be  
25 expected so I don't see that as an issue here.

1 Q Would it even be possible for Rimini to keep different  
2 versions of Oracle software on its systems?

3 A Well, Rimini doesn't keep any versions of Oracle software  
4 on its system, and in each client's case, they keep a version  
5 in the client's Dev and QA environments that's specific to  
6 that client, and there are often differences.

7 So the versioning is done in the client's  
8 environment for that client. Rimini wouldn't be keeping any  
9 version control of that because it's not in their systems.

10 MR. McCracken: Thank you, Professor. I have no  
11 more questions on direct.

12 THE COURT: Okay. Cross-examination,  
13 Mr. Isaacson.

14 MR. ISAACSON: Yes.

15 Good afternoon, Professor. My name is Bill  
16 Isaacson.

17 THE WITNESS: Good afternoon.

18 CROSS-EXAMINATION

19 BY MR. ISAACSON:

20 Q Now, as I understand it, you were engaged by Rimini  
21 Street to evaluate and analyze Ms. Frederiksen-Cross's report.

22 A Yes, that's correct.

23 Q And you were not asked to do an investigation of your own  
24 and reach an opinion on whether Rimini Street has violated the  
25 injunction; is that correct?

1       A     That's correct.

2       Q     The technical analysis that you've done in this case of  
3     Rimini's processes was based upon what Rimini's engineers and  
4     Rimini documentation told you; is that correct?

5       A     Well, as I mentioned, I have read all the exhibits and  
6     information that Ms. Frederiksen-Cross includes in her report  
7     so I've used that along with what Rimini has provided me.

8       Q     Right. So your technical analysis of Rimini's processes  
9     include what Rimini engineers told you, what Rimini  
10    documentation told you, and what you reviewed from the  
11    exhibits of the Frederiksen-Cross report.

12    A     I think that's reasonable.

13    Q     And in terms of what Rimini engineers told you, or  
14    anybody at Rimini told you, you did not undertake any factual  
15    investigation to verify the accuracy of their representations  
16    about their processes; is that correct?

17    A     I worked to make sure that the explanations and e-mail  
18    and logs that I read were consistent.

19    Q     That wasn't my question.

20                You did not undertake any factual investigation to  
21    verify the accuracy of any Rimini representation that was made  
22    to you, correct?

23    A     I did not take specific actions for that, correct.

24    Q     And you personally did not do anything to confirm whether  
25    any Rimini developer copied Oracle code, correct?

1       A     I looked at all the exhibits and logs I was given, and I  
2       saw that except for the -- I didn't see any examples where  
3       code was copied, so I'm not sure what else I could have done.

4       Q     Well, you -- are you saying that if you wanted to know  
5       whether a Rimini developer copied Oracle code, all you think  
6       you could do was evaluate the Frederiksen-Cross report?

7       A     No. As I mentioned, I looked at the log files of all the  
8       different tools that a Rimini engineer uses. I did not  
9       interview all of the Rimini engineers and ask them that  
10      question.

11      Q     In fact you personally did not do anything that -- to  
12      confirm that no Rimini developer copied Oracle code to its  
13      systems since the injunction went into effect, isn't that  
14      correct?

15      A     In looking at the log files that were provided to me,  
16      which, as I understand it, were all the log files, I saw no  
17      such evidence.

18      Q     All right. But all you did was confine yourself to the  
19      materials in the Frederiksen-Cross, and other than that, you  
20      did not personally do anything to confirm that a Rimini  
21      developer copied Oracle code to its system since the  
22      injunction went into effect.

23                   I have that correct, don't I?

24      A     I did look at the log files, and these are extensive log  
25      files, but I didn't look at things outside of the materials



1 that I have already spoken of that I used in coming to my  
2 opinions.

3 Q As part of your work in this case, you were allowed  
4 access to speak to anyone at Rimini that you wanted to,  
5 correct?

6 A I don't know that that was the case.

7 Q Well, let me understand that. If you asked to talk to  
8 someone at Rimini, were you granted permission to do so?

9 A I -- when I spoke with engineers, that happened. I  
10 didn't, for example, ask to speak with -- we've seen now QA  
11 engineers now in Bangalore and other parts of the world. I  
12 don't know if that would have been allowed or not.

13 Q So you interviewed certain people, and you didn't  
14 interview others. Those were your decisions. Every person  
15 that you requested to interview you were told yes.

16 A I think that's fair.

17 Q Okay. And it was never suggested to you that in doing  
18 your work that if you needed to talk to someone at Rimini the  
19 answer might be no.

20 A That wasn't suggested to me.

21 Q All right. And it would be fair to say that it was your  
22 assumption in doing your work that you are going to be allowed  
23 reasonable access to speak to anyone at Rimini that you wanted  
24 to.

25 A I think that's reasonable.

1 Q Now, after the injunction the only interview that you did  
2 with any Rimini personnel was with a gentleman named James  
3 Butler.

4 A I believe that's a reference in one of my reports, yes.

5 Q And you understood that he was an associate general  
6 counsel at Rimini.

7 A I don't remember his title.

8 Q Do you know anything about his background?

9 A Not that I can recall.

10 Q So it was your choice, as I understand it, not to speak  
11 to any Rimini personnel beyond Mr. Butler after the  
12 injunction.

13 A Yes.

14 Q And by the time of your reports and deposition in this  
15 case, you had not personally observed Rimini's software  
16 development team performing any testing of any updates. Do I  
17 have that correct?

18 A I did not see Rimini engineers working in development  
19 environment, that's correct.

20 Q You had not observed a Rimini engineer logging into a  
21 client environment to update or fix files before your reports  
22 and depositions.

23 A I may have seen someone log into a system, I don't  
24 recall. But that would have been logging in, not going  
25 through the entire development process.

1 Q And for your reports and depositions -- well -- well,  
2 strike that.

3 Let me just ask you, you don't know whether Rimini  
4 has ever developed a PeopleSoft or a JD Edwards update for one  
5 Rimini client that was provided only to that client; is that  
6 right?

7 A As I stated earlier, I was asked to respond to the  
8 allegations of Ms. Frederiksen-Cross, and as I have talked  
9 about today, in each one of those cases I have described how  
10 the updates were made for that client.

11 Q To be clear, you are not here to answer the question  
12 before the Court as to -- for example, as to whether -- are  
13 you giving an opinion today as to whether the injunction has  
14 been violated?

15 A In my responses I have indicated that in what  
16 Ms. Frederiksen-Cross has opined that the injunction hasn't  
17 been invalidated, that we're in compliance based on her  
18 allegations.

19 Q Are you giving the opinion that in every respect the  
20 injunction has not been violated?

21 A Only in responding to Ms. Frederiksen-Cross.

22 Q With respect -- are you giving the opinion that -- well,  
23 I'll move on.

24 You're not aware in terms of a -- since the  
25 injunction you are not aware any material changes to Rimini's

1 JD Edwards support processes, correct?

2 A That's reasonable, yes.

3 Q Now, in terms of your testimony concerning derivative  
4 works, you consider the issue of whether a file is a  
5 derivative work to be a legal conclusion, correct?

6 A Basically it's my understanding that that is -- that  
7 copyright issues are legal concerns, yes.

8 Q Right. You have no formal training in copyright law.

9 A I am not a lawyer, that is correct.

10 Q And I think it was made clear on your direct you're not  
11 trying to give legal opinions.

12 A That is correct.

13 Q All right. Now, you were asked in this case by Rimini's  
14 counsel to assume that to be a derivative work a work must  
15 substantially incorporate protected material from a  
16 preexisting work; is that right?

17 A That's consistent with other definitions that I've been  
18 given in other cases as well, but, yes, that's correct.

19 Q And you agree that even under the definition of a  
20 derivative work that you were asked to assume, a work doesn't  
21 need to literally contain Oracle code to be a derivative work.

22 A I think what you're saying is consistent with my -- with  
23 the definition I used, but it must be substantially similar  
24 to, as I understand it.

25 Q All right. Now, with respect to what we have called

1 violation 1, PeopleSoft materials on Rimini's site, this  
2 refers to the psptaxdt, the PeopleSoft functional user  
3 documentation on G6, and the PeopleSoft tax update on Texas  
4 Children's Hospital. You remember those topics.

5 A I remember those topics, yes.

6 Q Okay. Now, with respect to the psptaxdt.dms materials  
7 that were on Rimini's system, in your opinion was there a  
8 violation of Rimini's Acceptable Use Policy?

9 A My understanding of the Acceptable Use Policy is that  
10 Rimini's clients are told not to attach PeopleSoft software to  
11 either an e-mail or Salesforce ticket, so the fact that that  
12 happened would not be consistent with the Acceptable Use  
13 Policy.

14 Q And you heard Mr. Bengé say that in his view what  
15 happened there was a violation of the Acceptable Use Policy.

16 A I heard Mr. Bengé discuss that he had been reprimanded  
17 for that as well.

18 Q Right. And, in your opinion, is what was -- what  
19 happened with the psptaxdt.dms materials a violation of the  
20 injunction?

21 A My understanding is that violation of the injunction  
22 would be a legal determination, not something that I would do.

23 Q Now, it hasn't been that long that we've been talking  
24 together. I thought you just gave me the opinion before that  
25 there's been no violation of the injunction in any respect

1 based on the materials that you've reviewed from the  
2 Frederiksen-Cross report which would include this topic.

3 Are you changing that testimony?

4 A With -- as I discussed earlier today, I consider these  
5 isolated so it's not my determination as to whether they're  
6 being found on Rimini's system is a violation of the  
7 injunction.

8 It would appear that having files on Rimini's system  
9 is not consistent with their Acceptable Use Policy. Whether  
10 that's a violation of the injunction is something that I  
11 believe is a legal determination.

12 Q I'm becoming confused about your perception of your role  
13 here.

14 A A few minutes ago you told me it was your opinion,  
15 that you were giving the opinion in this case that there was  
16 not a violation of the injunction in any respect based on the  
17 materials that you reviewed from the Frederiksen-Cross report.

18 Now you seem to be saying it's not your position --  
19 it not your position to be giving opinions about whether there  
20 was a violation of the injunction.

21 A It may have been --

22 Q Are you changing your testimony?

23 A When you asked me the earlier question, I was thinking  
24 more about the cross-use issues rather than all the issues  
25 before me, and that may have been in my mind when I answered

1 your question.

2 Q So when I asked you whether you were giving an opinion  
3 about a violation of the injunction in every respect, with  
4 respect to everything in the Frederiksen-Cross materials, you  
5 were only talking about cross-use.

6 A When I said that I didn't think that there had been a  
7 violation, I was referring to cross-use, yes.

8 Q All right. Now, I'm still trying to understand your  
9 role, as you view it, as an expert in this case.

10 You just told me that with respect to the PeopleSoft  
11 files on Rimini's system, violation 1, that you did not think  
12 it was your role to give opinions about whether there was a  
13 violation of the injunction.

14 But do I understand it that for cross-use you do  
15 think it's your role to give opinions about whether there's a  
16 violation of the injunction.

17 A I believe it's my role to respond in each case that  
18 Ms. Frederiksen-Cross provided as to whether her analysis is  
19 correct, and in the case of cross-use, as I explained earlier  
20 today, I don't think her analysis is correct.

21 Q Right.

22 A In the case of having files on Rimini's system, there are  
23 absolutely files on Rimini's system.

24 Q Right. I don't think you're answering my question, sir,  
25 so I'm going to ask it again, all right?

1           You told me that with respect to the first  
2 violation, it was not your role as an expert to reach a  
3 conclusion about whether there's a violation of the  
4 injunction. All right.

5           With respect to cross-use you told me, again a  
6 matter of a minute or two ago, that, in your view, there was  
7 no violation of the injunction, and that's what you were  
8 thinking about when I asked you about whether -- your opinions  
9 about whether there was a violation of the injunction.

10           When your -- is it your view -- what you're saying  
11 is it's okay for you to give an opinion about whether there's  
12 a violation of the injunction on some of these topics but not  
13 others.

14       A    I'm happy to give an opinion on each of the aspects that  
15 I have talked about today that are in response to  
16 Ms. Frederiksen-Cross. So I would be happy to give an opinion  
17 about the files that you're alluding to as well as to the  
18 cross-use.

19       Q    Well, with respect to the PeopleSoft materials,  
20 documentation, files that were found on the Rimini system with  
21 respect to violation one, do you have an opinion about whether  
22 there was a violation of the injunction?

23       A    I would need to see the wording of the injunction to be  
24 sure, but absolutely there were files found on Rimini's system  
25 and they were Oracle files.



1 Q Right. Is it -- once you heard they were violations of  
2 the Acceptable Use Policy, was that sufficient for you to know  
3 that they were violations of the injunction?

4 A The Acceptable Use Policy doesn't enter into my  
5 determination that they were found on the Rimini systems.

6 Q Did you review the Acceptable Use Policy before doing  
7 your reports or your depositions in this case?

8 A I read the Acceptable Use Policy. When I did that, I  
9 don't recall.

10 Q You didn't find it in your materials relied on in the --  
11 for your reports. Did you -- is this -- did you review the  
12 Acceptable Use Policy for the first time in order to prepare  
13 for trial?

14 A No.

15 Q Now, in terms of Oracle's IP that was uploaded to  
16 SalesForce by Rimini clients, you understood that there were  
17 844 instances of Oracle IP uploaded to SalesForce by Rimini  
18 clients; is that correct?

19 A No, I understand that Ms. Frederiksen-Cross discussed  
20 many instances in her report, and I had an opinion in response  
21 to that. I don't recall how many I ultimately agreed might  
22 have been.

23 MR. ISAACSON: Well, let me see if I can refresh  
24 your memory here.

25 Can we look at his March 13th report at

1 paragraph 211. We're going to show it to you. If you ever  
2 need the reports, they're it's also in that binder that's been  
3 handed to you.

4 THE WITNESS: What Tab number or what exhibit  
5 number?

6 MR. ISAACSON: It's March 13th, it's towards the  
7 back after the exhibits.

8 THE WITNESS: Okay.

9 MR. ISAACSON: And we're going to look in  
10 paragraph 211.

11 THE WITNESS: Okay. I see that on the screen  
12 and I have the report.

13 BY MR. ISAACSON:

14 Q All right. And you see in the middle of that paragraph,  
15 "I understand that out of 934 documents that  
16 hit on Ms. Frederiksen-Cross' search, 844 of them,  
17 more than 90 percent, were uploaded to Salesforce by  
18 clients in violation of Rimini's policy."

19 Right? And you -- and what you were doing there  
20 was responding to Ms. Frederiksen-Cross' report which is where  
21 she had done, as referenced there, a search of Rimini's files  
22 for Oracle copyrighted material and identified 934 documents,  
23 and you looked at that and said, "I understand that 844 of  
24 them were uploaded to Salesforce by clients."

25 A Yes.

1 Q And you didn't question the accuracy of her search when  
2 she found those 934 documents.

3 A No, I did not.

4 Q Okay. How did you determine that 844 of them were  
5 uploaded to Salesforce by clients?

6 A There were Salesforce tickets that discussed these as I  
7 understand it.

8 Q You went through Salesforce tickets for 844 of these and  
9 determined that they came from clients?

10 A Well, if they were Salesforce tickets, they would have  
11 come from clients.

12 Q So is it your -- so let me understand your work process  
13 here, that if it was a Salesforce -- if it was uploaded -- so  
14 you are just going by the fact that who did the upload.

15 Did you actually check those uploads?

16 A I don't recall if I looked at all eight hundred and --  
17 what's the number I used there?

18 Q Eight hundred --

19 A Forty-four.

20 Q Eight hundred forty-four.

21 A But when I write I understand that 90 percent of them  
22 were uploaded, that would mean that that was represented to  
23 me, and I checked some of them.

24 Q Right. Then you talked to Mr. Butler about the 934  
25 files, correct?

1       A     Yes, that's correct.

2       Q     And after the injunction, when you talked to Mr. Butler,  
3     you talked to him about two things that you can remember, one  
4     was these 934 files, and the other was ten files that related  
5     to violation 1. Do you recall that?

6       A     I'd have to look at my footnotes, but that seems  
7     reasonable.

8       Q     I'm referring to your footnotes on page 70 and 114 of  
9     your report.

10                You don't recall talking to Mr. Butler after the  
11     injunction about any other topics; is that correct?

12       A     If I didn't reference it in that report, that would be  
13     correct.

14       Q     Now, you say -- you go on to say,

15                        "I also understand that every one" -- and you  
16     put that in italics -- "of these 934 documents were  
17     flagged by a Rimini employee as potentially  
18     containing third-party intellectual property  
19     materials."

20                I just want to stop there. Where did you go  
21     that understanding from?

22       A     That would have been from Mr. Butler. That's why it's  
23     referenced in that footnote.

24       Q     Well, it's -- actually the footnote is to the next  
25     sentence. There is no footnote to this sentence.

1           And I frankly don't understand where you were saying  
2 that after Barbara Frederiksen-Cross did a search and found  
3 934 documents, that you then say,

4           "I understand that every one of these 934  
5 documents were flagged by a Rimini employee as  
6 potentially containing third-party intellectual  
7 property materials."

8           Now, I know that the Frederiksen-Cross report  
9 flagged those. I don't know who this Rimini employee is, do  
10 you?

11       A    I'm reporting about the conversation I had with  
12 Mr. Butler.

13       Q    Do you know who the Rimini employee is who flagged these  
14 documents?

15       A    I don't know if it was one, many, or who -- no, I do not  
16 know.

17       Q    You said -- you said one, singular.

18           And when you had this conversation with Mr. Butler  
19 did it strike you as something worth inquiring about that once  
20 Ms. Frederiksen-Cross said, "Oh, I have flagged through the  
21 search 934 files," that Mr. Butler was saying, "Well, we  
22 already have a Rimini employee who has identified those"?

23       A    I don't recall, but the use of the word "a" to me doesn't  
24 mean a single person, it means some, but I don't know if it  
25 was one or many, and I did not follow up, that's correct.

1 Q A Rimini employee doesn't mean one. Okay.

2 But whether it's one or some, the -- my question is  
3 are you saying that you learned that before the  
4 Frederiksen-Cross report that these reports had already --  
5 that these documents had already been flagged by Rimini?

6 A That's what I write here, yes.

7 Q So before the Frederiksen-Cross report revealed to the  
8 Court that there were 934 documents on their system that  
9 potentially contained third-party intellectual property  
10 materials and that they were the exact 934 documents flagged  
11 by Frederiksen-Cross, that that was all known beforehand for  
12 her report by Rimini, that's what you found out.

13 A I don't have that temporality in my report, nor do I  
14 recall that.

15 Q But that's what you wrote.

16 A What I wrote is that Ms. Frederiksen-Cross says that 934  
17 documents hit in her search, and that -- then I write that  
18 "each of these documents was flagged by an employee."

19 So I didn't write that I had the conversation with  
20 Mr. Butler before the report. This is in response to her 934.

21 Q Oh, I didn't mean to imply that you had the -- when you  
22 had the conversation with Mr. Butler. I only know it's after  
23 the injunction.

24 So did you have the conversation with Mr. Butler  
25 before or after the reports of Ms. Frederiksen-Cross?

1 A That would have been after in responding to her report.

2 Q Right. And after her report, and in terms of your work  
3 in responding to the report, you found out that Rimini had  
4 already flagged these documents.

5 A As referenced by Mr. Butler, that's correct.

6 Q And then Mr. Butler told you that all 934 documents were  
7 locked down, quarantined, to make the file inaccessible, and  
8 you actually say that twice in this paragraph. He told you  
9 they were quarantined; is that right?

10 A That's what he said, yes.

11 Q And did you have an understanding of quarantined, where,  
12 how?

13 A I know that what Mr. Butler told me. I didn't look to  
14 understand the quarantine process that might have been in  
15 place.

16 Q And you looked -- as a result of looking at the documents  
17 in this case, you looked at these files and -- they're in  
18 Salesforce, they're in e-mail files, and you saw them on a  
19 nonquarantine basis, right?

20 A I saw them as part of these e-mails and Salesforce  
21 tickets; that's correct.

22 Q And in your conversation with Mr. Butler was there any  
23 suggestion that there more than 934 files in quarantine, or  
24 was that it?

25 A I don't recall.

1 Q Did you ask?

2 A I can't recall.

3 Q And you have never seen any actual documentation that any  
4 of these files were quarantined.

5 A That's correct.

6 Q We can look at your slides DDX-550 and 51.

7 Now, this is the discussion of Johnson Controls, and  
8 here you're discussing how the W2 update was not cross-use.

9 Do you recall this slide?

10 A Yes.

11 Q Now, these were not -- you discuss the Johnson Controls  
12 issue in one paragraph of your report. Do you recall that?

13 A If you represent to me that's what I did, that sounds  
14 reasonable.

15 Q And you didn't give any of these opinions in that  
16 paragraph, did you?

17 A I'd have to look to see. I don't recall my report  
18 verbatim at this point.

19 MR. ISAACSON: All right. Can we look at  
20 paragraph 278 of that report.

21 BY MR. ISAACSON:

22 Q And, there, you can see a discussion of the bug fix and  
23 JHN. Do you see that?

24 A Yes.

25 Q And you say that what the Frederiksen-Cross report has to



1 say is extremely misleading, and you talk about the Adobe  
2 Acrobat .pdf form. Do you see that? Which you said is not  
3 Oracle software.

4 A That's correct.

5 Q All right. You didn't discuss in your report whether the  
6 City of Eugene was one of many clients affected by the bug,  
7 correct?

8 A That's correct. In this paragraph, I do not.

9 Q And you didn't discuss whether testing the solution to  
10 the bug in the City of Eugene's environment, for City of  
11 Eugene, whether that was cross-use, right?

12 A Yes. To be fair, this paragraph is discussing one aspect  
13 of the update, which was to change the .pdf file font. It  
14 does not discuss the other one that you're asking me about,  
15 that's correct.

16 Q And I agree on that.

17 The work that you did here for your testimony was  
18 something you have just done in preparation for trial, reading  
19 some documents and listening to some testimony that's going on  
20 at trial. That's what's going on here, right?

21 A Well, I did all the work before I listened to the  
22 testimony.

23 Q All right. And so if we can look at DTX-302, which is  
24 the document that you were looking at -- and hopefully -- is  
25 that in your binder? I think we need to hand that up. Well,

1 that's in your binder from counsel, from your counsel.

2 A Do you have an exhibit number on this? Is it on this?

3 Q DTX-302.

4 A Oh, 302.

5 Q I believe it was in the binder that counsel for Rimini  
6 Street gave you for your direct testimony, and it was a  
7 document that you discussed with him so you had to have it up  
8 there.

9 A Okay.

10 MR. ISAACSON: All right. And can we put that  
11 on the screen at page 2.

12 BY MR. ISAACSON:

13 Q And you read together, on page 2, an e-mail from  
14 Mr. Ramachandran,

15 "Looks like this could be a potential problem  
16 for all new clients."

17 And then up above that, at the top of the  
18 page, "GPD, please let me know after you scope if you  
19 think other clients could be impacted."

20 You recognize that scope refers to the scope  
21 that goes into their system to determine who is going to be  
22 getting an update, correct?

23 A I know that one use of scope is in the Jira system,  
24 that's correct.

25 Q All right. Now, that's what you read, and you decided to

1 read -- that was your choice to read those selections from the  
2 document; is that right?

3 A Well, yes.

4 Q Now, we go to page 1, and Paula Smith writes to the  
5 group, including to Jim Bengel,

6 "We will handling this on a case-by-case  
7 basis as it will depend on the data they report."

8 And you don't know whether City of Eugene was in  
9 scope for this bug fix, you don't know whether they ever  
10 provided data that would indicate they needed the bug fix, and  
11 you don't know whether, when Rimini Street handled this on a  
12 case-by-case basis, that was to include the City of Eugene.

13 You don't know any of those things, do you?

14 A That's kind of a complicated question with many, many  
15 parts so --

16 Q It was a compound question, and I'll ask it three times  
17 if you want, but I invite you to answer the question.

18 A As I understand it, in the Jira system, scope is  
19 something that can change.

20 And as I read these documents, it is my  
21 understanding that the reason the update was made in the City  
22 of Eugene's environment was because that was one of the  
23 clients that would be in scope, as it were, in needing the  
24 update.

25 Q But you never saw the City of Eugene was in scope for

1     this bug fix, correct?

2     A     I saw that US was in scope, and the City of Eugene is in  
3     the US.

4     Q     That was -- and did you -- and what date were they in  
5     scope -- was it in US in scope?

6     A     I'd have to review the Jira logs to see when it was and  
7     when it wasn't.

8     Q     Right.  You're not able to -- you're not able to do that  
9     today, and I'm not going to ask you to do it today.

10                 But you don't know the dates when City of Eugene was  
11     in scope or out of scope, is that fair?

12     A     I don't know when the US was the scope completely.  I  
13     would have to look at the Jira logs to be able to answer  
14     that with some authority.

15     Q     And you don't know -- I'm sorry.  I didn't mean to  
16     interrupt.

17                 You don't know when the City of Eugene was ever --  
18     was within -- was ever determined on a case -- as a part of  
19     this case-by-case basis as needing the bug fix, you don't know  
20     that, do you?

21     A     No.

22     Q     And you don't know whether they reported any data  
23     indicating they needed a bug fix, correct?

24     A     I do not know that.

25     Q     And you could have asked Rimini people.  You could have

1 gone and said, "Did City of Oregon -- City of Eugene need the  
2 bug fix? You know, I got this document, but it's not clear to  
3 me," perhaps you're thinking that. You never went and asked  
4 anyone, did you?

5 A What I did ask is was the City of Eugene potentially  
6 affected by the bug, and the answer I got was yes.

7 Q From who?

8 A From the Jira documents. I asked and was also informed  
9 by talking -- well, I didn't speak with, but I heard Mr. Bengé  
10 discuss this.

11 Q Are you referring to his testimony or discussion outside  
12 of court?

13 A No, I did not have a discussion with him outside of  
14 court. I heard that here.

15 Q Okay. So you're just relying on what Mr. Bengé said and  
16 Jira documents that you don't quite remember, right?

17 A And the e-mail documents that you just had me reference.

18 Q Right. And you never went to the engineers on this and  
19 said -- or to Paula Smith, for that matter, who said,

20 "We will be handling this on a case-by-case  
21 basis as it will depend on the data they report."

22 You never went to Paula Smith, or anybody else  
23 with knowledge, to find out whether City of Eugene fell within  
24 that case-by-case, or reported any of the necessary data.

25 You didn't do that, did you?

1 A I did not speak with Paula Smith.

2 MR. ISAACSON: Then if we could look at DDX-551.

3 BY MR. ISAACSON:

4 Q This is another one of your slides about the reuse of  
5 know-how, and, here, I think you said the Rimini engineers  
6 knew the City of Eugene needed this bug fix, that the Rimini  
7 engineers thought the City of Eugene was potentially affected  
8 by a bug.

9 I think that's what you told us, right?

10 A Well, I certainly knew that they were potentially  
11 affected by the bug because they used this form.

12 Q But you actually went beyond that and suggested that you  
13 had an understanding based on your work about what the Rimini  
14 engineers knew, and what the Rimini engineers were thinking.

15 That's what you were telling us, right?

16 A I'm sorry, I don't understand your question.

17 Q Okay. Let me -- the transcript will say what it says.

18 But when you talked about what Rimini engineers  
19 might have known and what the City of Eugene needed, right?

20 Ms. Frederiksen-Cross has to read the documents.  
21 She can't go to Rimini Street and interview engineers and find  
22 out what's going on. You could. You could actually do that,  
23 and you didn't, did you?

24 A I did not speak to Rimini engineers, that's correct.

25 Q If we could look at your -- at 544, DDX-544, another one

1 of your slides, this is your definition of derivative work.

2 A No, I don't think so.

3 Q Oops. Oh, cross-use, sorry. Yeah. This is your  
4 definition of cross-use. Thanks.

5 And this is a definition provided to you by counsel;  
6 is that right?

7 A Well, as we can see in this slide, the permanent  
8 injunction order says,

9 "Shall not reproduce, prepare derivative  
10 works from, or use a specific licensee's PeopleSoft  
11 software or documentation."

12 That's what I refer to as the yellow bullet 1,

13 "There must be a reproduction or a derivative  
14 work," and then, "or use of a specific licensee's  
15 PeopleSoft software documentation."

16 And then part 2 is the green, "Other than to  
17 support the specific licensee's own internal data  
18 processing operations."

19 So I'm meaning these two definitions to comport  
20 with that injunction order.

21 Q My pen just fell apart. I apologize.

22 And it's your view that if there was a reproduction  
23 or derivative work of Oracle software by a Rimini client that  
24 was not solely to support that client, that that would be  
25 cross-use; is that right?

1       A     I think that's what bullet number 2 says, but I'd want to  
2 actually look at what your sentence is to be sure I got it  
3 right.

4       Q     I think that's what it says, too. I just want to make  
5 sure you agree with me.

6                 It's the next page is your definition of derivative  
7 work, and I think you said several times, "I understand this  
8 is the definition of derivative work."

9                 When you say you understand that, your understanding  
10 is that's the legal definition of derivative work, and you  
11 have obtained that from counsel.

12       A     That's correct. And as I, I think, mentioned to you in a  
13 previous response, that's consistent with the definition of  
14 derivative work that I've been given in other cases as well.

15       Q     By other lawyers.

16       A     That is correct.

17       Q     It's always nice when some lawyers agree.

18                 The -- now, with respect to the cross-use issue,  
19 which we call violation 4 with respect to Spherion and Smead  
20 which you spent some time on, you are assuming that, as a  
21 factual matter, that the City of Oregon [sic] environment was  
22 used for testing, and not the environment of Spherion and  
23 Smead because there was a problem common to many customers,  
24 including the City of Eugene, correct?

25       A     Again, there was -- there are many parts to your



1 statement, and as I've discussed earlier, these -- both I  
2 wrote about, and we heard Mr. Bengé and Ms. Davenport discuss,  
3 that these were tested in the other environments. So that's  
4 why I don't understand your question completely.

5 Q I'm just trying to understand the factual assumptions  
6 you're making.

7 I think we agree that the City of Eugene was used  
8 for testing of the -- of the fix here that went to Spherion  
9 and Smead. We agree on that?

10 A No, I don't agree with your characterization of it.

11 Q Okay.

12 A The City of Eugene was used to test the fix in the City  
13 of Eugene's environment for the City of Eugene.

14 Q Right. And then that fix also went to Spherion and  
15 Smead.

16 A Where it was tested as well.

17 Q Right. And your factual assumption is that when the  
18 testing happened in the City of Eugene, there was a problem  
19 common to many customers that included the City of Eugene.

20 A I believe I stated that many customers would be affected  
21 by this bug, and the City of Eugene was one of them. I  
22 believe that is consistent with your statement.

23 Q Okay. And you are also assuming that the City of Eugene  
24 environment was not used simply because Rimini could not  
25 access the environments of Spherion and Smead.

1 A I did not say that, that's correct.

2 Q Okay. I think I have achieved some level of negatives  
3 here so I didn't understand your answer, but that may be the  
4 problem with my question.

5 Did you have any understanding that the City of  
6 Eugene environment was being used by Rimini because they could  
7 not access the Spherion and Smead environments?

8 A No, I did not have that understanding.

9 Q Okay. And, on this issue, you didn't ask to interview  
10 Tim Pringle or anyone from business affairs, right?

11 A That's correct.

12 Q You did interview Don Sheffield at some point, correct?

13 A That sounds right.

14 Q Did you talk to him about the 940 Schedule A issue?

15 A I don't recall the complete substance of my conversation.

16 Q And do you have any familiarity with the City of Eugene  
17 PeopleSoft license?

18 A No, I do not.

19 MR. ISAACSON: All right. Can we look at  
20 DDX-559.

21 BY MR. ISAACSON:

22 Q This was a chart you prepared -- well, did you prepare  
23 this chart?

24 A I worked with counsel to prepare my demonstratives. I  
25 didn't actually edit the PowerPoint, but we discussed it and

1 prepared it.

2 Q Like who wrote the dates?

3 A I understand that these dates are consistent with the  
4 exhibits that are noted as the basis for each of them.

5 Q That doesn't answer my question.

6 Who wrote dates on the slide?

7 A Well, as I mentioned, I did not write the slide, but I  
8 was there when the slides were created. So I certainly didn't  
9 type January 25.

10 Q Well, I don't know how you do your writing. Some of us  
11 handwrite things out and then they are put on a slide. Some  
12 of us type our own slides.

13 But did you write out in any fashion, you know,  
14 these three dates with these three things happening, or was  
15 this something you were just handed?

16 A You use the word "write," and as I mentioned, I did not  
17 write these, but it was a collaborative process of developing  
18 these slides, and those dates are certainly dates that I agree  
19 with.

20 Q By collaborative process, do you mean that someone else  
21 wrote a draft of this, handed it to you, and you ended up  
22 agreeing with it?

23 A No, That's not what I would describe as a collaborative  
24 process, nor is it the process that was used in this  
25 case.

1 Q All right. So can we look at -- so it says on -- the  
2 first thing it says is that,

3 "On January 25th, 2019, Don Sheffield  
4 modifies Rimini-created files and tests them in City  
5 of Eugene's development environment for City of  
6 Eugene."

7 And then you reference OREX\_21 at 2, and so can  
8 we look at OREX\_21 which I think is in both your binders.

9 All right. And you can see there at the bottom  
10 of 2, Mr. Sheffield says, "I have completed the testing in  
11 COEX," City of Eugene.

12 A Yes, I see that.

13 Q All right. Now, if we go to page 3, Mr. Sheffield says,  
14 on January 24th, "I tested in COEX." The testing happened on  
15 January 24th, didn't it?

16 A Well, that's certainly when this e-mail was written, yes.

17 Q And the slide is inaccurate when it has that January 25th  
18 date for your first entry there, correct? It should say  
19 January 24th.

20 A There's an e-mail that you just told me earlier that  
21 says, "I have completed the testing, and have now ruled it  
22 out." So --

23 Q Right. He wrote on -- he said on the 24th, "I tested  
24 it," and he wrote again on the 25th, "I've completed it."

25 The first time he says he tested it was the 24th,

1 right?

2 A And that's the first time he says he tested it, that's  
3 correct?

4 Q Right. Do you agree with me that this slide should say  
5 January 24th?

6 A I don't know if, in that e-mail from the 24th, which I --  
7 you know, it says,

8 "I tested it so tomorrow morning I will get  
9 the objects out to the clients and create the tech  
10 doc."

11 That's what it says on the e-mail of the 24th.

12 Q Do you know whether on January 24th, whether -- well, you  
13 don't know on January 24th -- I think you told me this --  
14 whether Rimini Street had any access to the Spherion or Smead  
15 environments. You don't know that, right?

16 A I don't -- I know that there were some issues in that  
17 access. I don't know when that was.

18 Q Right. And do you know whether City of Eugene was in  
19 scope on January 24th?

20 A What I -- I don't know, without looking at the Jira logs,  
21 who was in scope, if that's what you mean. If you mean by in  
22 scope in the Jira logs, I don't know that.

23 Q Okay. And on January 24th, you don't know whether  
24 the business analysis department had already made the  
25 determination that this form, 940 Schedule A, was not needed,

1 except for clients who were -- had operations in the Virgin  
2 Islands. You don't know that.

3 A I certainly don't know what they knew other than by the  
4 e-mail I referenced which happened on January 28th.

5 Q Right. And you were here when we discussed in court that  
6 the IRS had said in a formal notice in November of 2018 that  
7 this form was only required if you were -- for -- the credit  
8 was only available for the Virgin Islands, the credit  
9 reduction. You were here and saw that, right?

10 A I was here when we saw that in the IRS form. It  
11 indicated that there was a credit reduction in the  
12 Virgin Islands.

13 Q Right. And you saw that that was dated November of 2018,  
14 right?

15 A Yes.

16 Q Okay. And over on your third column, you say,

17 "A Rimini business analyst determines update  
18 will not be delivered to all clients for tax law  
19 reason."

20 All right? That was Ms. Laurie Gardner and her  
21 department, correct?

22 A I believe that's correct, yes.

23 Q Okay. You don't know when Ms. Gardner made that  
24 determination, do you?

25 A No, I only know when she sent that e-mail.

1 Q Right. Exactly.

2 And you said on the stand that every client needed  
3 this form when the testing was done, and that Rimini had made  
4 that determination, but you don't actually know that, do you?

5 A I was speaking of the developers who, it's my  
6 understanding, thought that all US clients would potentially  
7 need this.

8 I don't know how developers would have responded to  
9 the legal analysis before the e-mail on the 28th.

10 Q You thought all the developers were thinking that?

11 A That's why, it's my understanding, that this was done in  
12 the environments that needed it.

13 We saw e-mails that indicated it would be rolled  
14 out -- the one you just showed me, it said, "We're rolling it  
15 out to all US clients."

16 That's my understanding that that's what the  
17 developers thought.

18 Q All right. So you read a document, and you say, "I know  
19 what all the developers are thinking."

20 A I obviously did not talk to all the developers so I  
21 couldn't know what they are all thinking. I know that what  
22 Mr. Sheffield wrote in his e-mai, is it was intended that this  
23 was going to roll out to all US clients.

24 Q And I think -- it's not that you didn't to all them, you  
25 didn't talk to a single one, did you?

1 A I did not talk to engineers, that's correct.

2 Q All right. And you didn't talk to Laurie Gardner.

3 A That's also correct.

4 Q And you were here and heard that it was the business  
5 analysis department that does the analysis to determine what  
6 clients need what updates, right?

7 A I heard that, yes.

8 Q A developer is not sitting there thinking, "oh, I know  
9 what tax form this" -- you know, "I know the City of Eugene  
10 needs the 940 Schedule A." That's the business analysis  
11 department decision, isn't it?

12 A No. In this case, I can see in this e-mail from  
13 Mr. Sheffield, who is an engineer, that he clearly thought all  
14 US clients were going to receive it. It's clear from the  
15 e-mail to me.

16 Q And that's just your reading as a computer scientist of  
17 an e-mail, right?

18 A As a computer scientist who has worked with many  
19 developers, that's correct.

20 Q And when you said that -- in the middle column that  
21 "Don Sheffield sends Rimini created files to US clients," what  
22 environment did he send it to, what client environments?

23 A It would have been sent using the transfer tools and the  
24 Create Update Tools -- probably not the latter.

25 As it says here,



1 "I know I need to know which of the document  
2 artifact folders it would be added to. I notice the  
3 scope in Jira was set to SPH. I changed it  
4 temporarily to US so that I could use the create  
5 update folder" -- sorry. I'll go again.

6 "I noticed the scope in Jira was set to  
7 SPH," that's Spherion. "I changed it temporarily to  
8 US so that I could use the CreateUpdateFolder tools  
9 for all US clients that will ultimately get this  
10 update."

11 Q In order for the clients to actually get the updates,  
12 they have to put it in their production environment from -- is  
13 it from the QA environment? Is that right?

14 A I'm not sure what your question is because you said  
15 production environment and QA environment.

16 Q Yeah. How does a client -- the client, in order to get  
17 the update, it has to end up in their production environment,  
18 right?

19 A Rimini does not access the client's production  
20 environment.

21 Q I know, but they send -- exactly. They send out a notice  
22 of some type saying to the client the update is available and  
23 you should access it on the QA product -- maybe I'm wrong  
24 about which environment, but not from the production  
25 environment -- to the client in the production environment,

1 gets a notice, and then they go in and they grab this update.  
2 That's the general process, right?

3 A That's -- it's reasonable that that's the general process  
4 because informal and formal updates are different. But, in  
5 either case, the client has to move it to their production  
6 environment.

7 Q Right. And there was never a determination that the City  
8 of Eugene, or anybody besides Spherion, Smead, and Matheson,  
9 needed this update and that the message should be sent, "go  
10 grab this update." That never happened, did it?

11 A Again, I'm not sure what your question is.

12 Is you question who was told to move it into  
13 production?

14 Q Yeah.

15 A As I understand it, we see here, it will not be delivered  
16 to all clients for tax law reasons, so not all clients were  
17 told to move it into production. That seems very clear to me.

18 Q I agree. Only three were, Spherion, Smead, and Matheson.

19 A I know that they were. I don't know if they were the  
20 only ones.

21 Q Okay. And one other question on this topic. Did you  
22 reach a conclusion as to whether there was a violation of the  
23 injunction with respect to the Matheson aspect of this case?  
24 Is that what you were testifying to on the stand?

25 A No. As I understand it, that was something that the

1 Court had already made a decision regarding.

2 MR. ISAACSON: All right. It's five o'clock,  
3 your Honor, and I'm done with this topic.

4 THE COURT: All right. It is an appropriate  
5 time to take our weekend recess. I'm sure everyone will enjoy  
6 a couple of days off to the extent they're able to be off.

7 MR. ISAACSON: Can I just do one piece of  
8 cleanup here?

9 THE COURT: Go ahead.

10 MR. ISAACSON: I will hand up Exhibit 1352 which  
11 was that piece of transcript which was admitted yesterday so  
12 that the Court has a copy of it.

13 And then -- days are -- was it earlier today  
14 that you talked about getting the findings of fact and  
15 conclusions of law in two weeks?

16 THE COURT: Well, two weeks from when we end.

17 MR. ISAACSON: Right, Right. And I quickly said  
18 yes, and then everybody behind me advised me of, like, all  
19 sorts of problems they have in the next two weeks, and we were  
20 wondering if we could get three weeks. We know there is no  
21 objection from Rimini Street to that.

22 THE COURT: All right. I have no problem with  
23 three weeks if that works for everyone.

24 MR. VANDEVELDE: Yeah, no objection.

25 And I wanted to raise one housekeeping issue,

1 just on the timing for next week if your Honor --

2 THE COURT: Yes.

3 MR. VANDEVELDE: -- doesn't mind. Is that all  
4 right?

5 THE COURT: Go ahead.

6 MR. VANDEVELDE: We talked about timing. I  
7 think we are well under our three days still. We have two  
8 more witnesses after Professor Astrachan. I think maybe,  
9 collectively, they will be a half-a-day.

10 To the extent Oracle wants to do a rebuttal  
11 case, if your Honor will permit it, we would just like advance  
12 notice of whoever they intend to call.

13 MR. ISAACSON: We will do that.

14 MR. VANDEVELDE: Okay.

15 THE COURT: I would expect that, and I  
16 appreciate it.

17 And at this point in time I see that everyone is  
18 within their time that the Court had in mind for the case.

19 MR. VANDEVELDE: Thank you, your Honor.

20 THE COURT: All right.

21 So back to the weekend, enjoy it, and we'll see  
22 you on Monday morning at 9:00 a.m.

23 MR. VANDEVELDE: Thank you, your Honor.

24 MR. ISAACSON: Thank you, your Honor.

25 (Proceedings were adjourned.)

-o0o-

I certify that the foregoing is a correct transcript from the record of proceedings in the above-entitled matter.

/s/Margaret E. Griener                      September 25, 2021  
Margaret E. Griener, CCR #3, FCRR  
Official Reporter

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